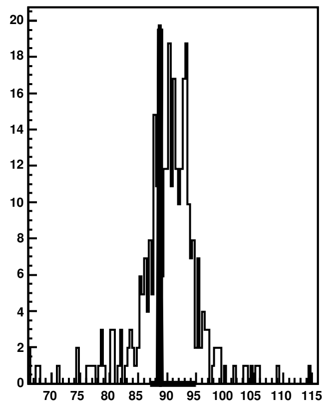
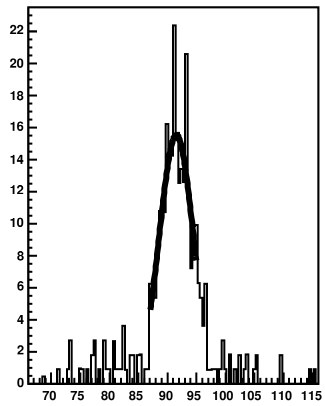
massplotst individual dilmassTCE-TCE



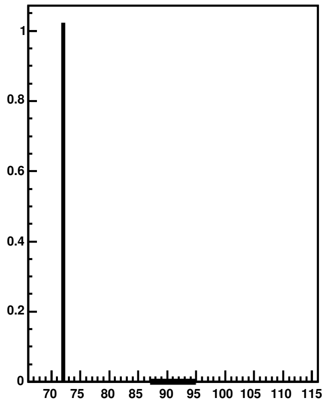
massplotst individual dilmassTCE-TCE
integral
3.229039e+02
peak integral from gaussian
6.223955e+00
peak integral error from gaussian
8.913650e+02
Integral 66-116
3.537549e+02
Integral 66-116 Error
1.312195e+02
mean from gaussian
8.871188e+01
mean error from gaussian
2.447019e+00
sigma from gaussian
5.218840e-02
sigma error from gaussian
7.472766e+00

massplotst individual dilmassTCE-PHX



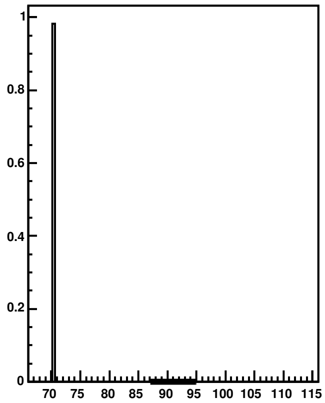
massplotst individual dilmassTCE-PHX
integral
3.166403e+02
peak integral from gaussian
2.701754e+02
peak integral error from gaussian
4.051898e+01
Integral 66-116
3.266779e+02
Integral 66-116 Error
1.208824e+02
mean from gaussian
9.154019e+01
mean error from gaussian
2.730027e-01
sigma from gaussian
2.891682e+00
sigma error from gaussian
3.520180e-01

massplotst individual dilmassTCE-TCE



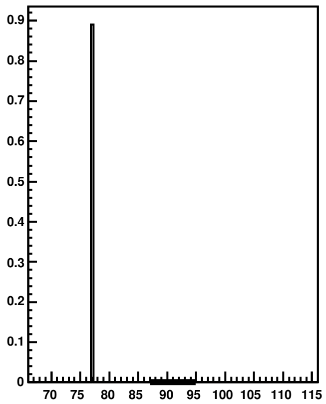
massplotst individual dilmassTCE-TCE
integral
1.020053e+00
peak integral from gaussian
1.020053e+00
peak integral error from gaussian
8.804377e+00
Integral 66-116
2.141878e+01
Integral 66-116 Error
5.581347e+00
mean from gaussian
7.183333e+01
mean error from gaussian
1.414214e+00
sigma from gaussian
1.660026e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassTCE-PHX



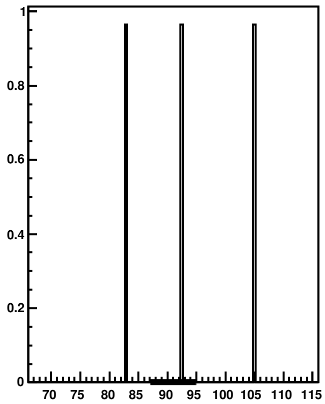
massplotst individual dilmassTCE-PHX
integral
9.821280e-01
peak integral from gaussian
9.821280e-01
peak integral error from gaussian
8.485644e+00
Integral 66-116
5.852429e+00
Integral 66-116 Error
3.160295e+00
mean from gaussian
7.016667e+01
mean error from gaussian
1.414214e+00
sigma from gaussian
1.660026e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassCMX-CMU



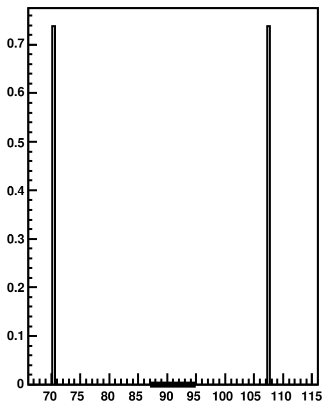
massplotst individual dilmassCMX-CMU
integral
8.898249e-01
peak integral from gaussian
8.898249e-01
peak integral error from gaussian
7.711404e+00
Integral 66-116
2.669475e+00
Integral 66-116 Error
2.148227e+00
mean from gaussian
7.683333e+01
mean error from gaussian
1.414214e+00
sigma from gaussian
1.660026e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassTCE-TCE



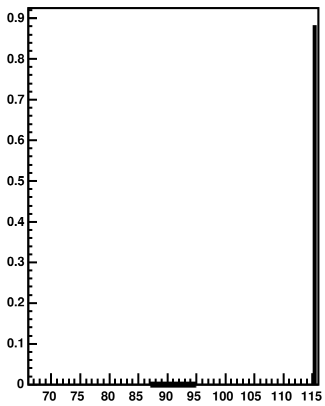
massplotst individual dilmassTCE-TCE
integral
2.891851e+00
peak integral from gaussian
2.891851e+00
peak integral error from gaussian
9.243385e+00
Integral 66-116
1.154818e+01
Integral 66-116 Error
5.777309e+00
mean from gaussian
8.266667e+01
mean error from gaussian
1.414214e+00
sigma from gaussian
4.980007e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassCMUP-CMU



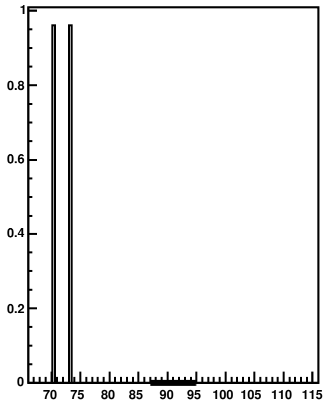
massplotst individual dilmassCMUP-CMU
integral
1.477140e+00
peak integral from gaussian
1.477140e+00
peak integral error from gaussian
6.898535e+00
Integral 66-116
1.477140e+00
Integral 66-116 Error
1.477140e+00
mean from gaussian
7.016667e+01
mean error from gaussian
1.414214e+00
sigma from gaussian
3.320053e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassCMUP-CMIO



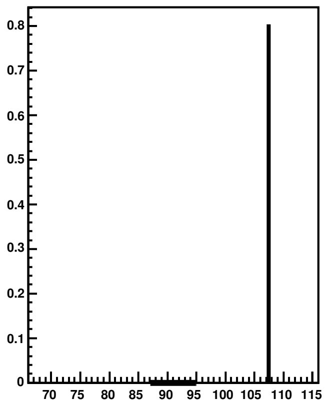
massplotst individual dilmassCMUP-CMIO
integral
8.810135e-01
peak integral from gaussian
8.810134e-01
peak integral error from gaussian
7.637623e+00
Integral 66-116
4.405067e+00
Integral 66-116 Error
2.643040e+00
mean from gaussian
1.151667e+02
mean error from gaussian
1.414214e+00
sigma from gaussian
1.660026e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassCMX-CMX



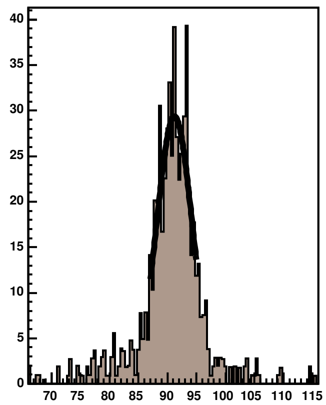
massplotst individual dilmassCMX-CMX
integral
1.923886e+00
peak integral from gaussian
1.923886e+00
peak integral error from gaussian
8.669378e+00
Integral 66-116
3.757555e+00
Integral 66-116 Error
3.220486e+00
mean from gaussian
7.016667e+01
mean error from gaussian
1.414214e+00
sigma from gaussian
3.320053e-01
sigma error from gaussian
1.414214e+00

massplotst individual dilmassCMX-CMU



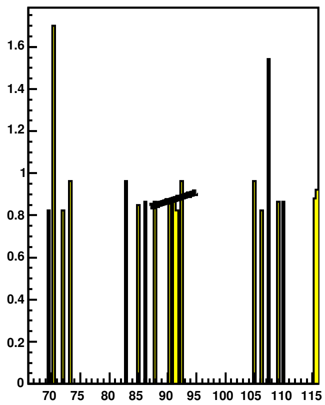
massplotst individual dilmassCMX-CMU
integral
8.021151e-01
peak integral from gaussian
8.021151e-01
peak integral error from gaussian
6.978203e+00
Integral 66-116
1.604230e+00
Integral 66-116 Error
1.604230e+00
mean from gaussian
1.072500e+02
mean error from gaussian
1.414214e+00
sigma from gaussian
1.660026e-01
sigma error from gaussian
1.414214e+00

Zee dilepton masses for Z peak



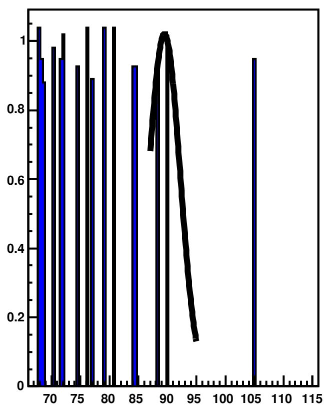
Zee dilepton masses for Z peak
integral
6.405444e+02
peak integral from gaussian
5.371286e+02
peak integral error from gaussian
5.905315e+01
Integral 66-116
6.834336e+02
Integral 66-116 Error
1.908103e+02
mean from gaussian
9.119295e+01
mean error from gaussian
2.009812e-01
sigma from gaussian
3.037134e+00
sigma error from gaussian
2.729951e-01

ttbar dilepton masses for Z peak



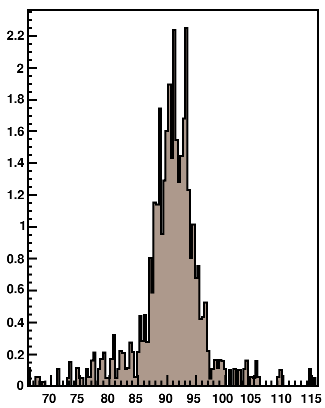
ttbar dilepton masses for Z peak
integral
1.822621e+01
peak integral from gaussian
5.458125e+04
peak integral error from gaussian
4.089237e+06
Integral 66-116
5.614603e+01
Integral 66-116 Error
2.223563e+01
mean from gaussian
8.297117e+02
mean error from gaussian
3.032501e+04
sigma from gaussian
2.740691e+02
sigma error from gaussian
9.394515e+03

higgsww dilepton masses for Z peak

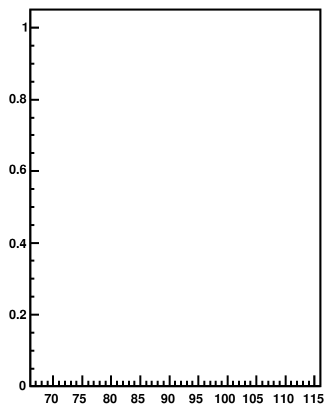


higgsww dilepton masses for Z peak
integral
1.548624e+01
peak integral from gaussian
1.664399e+01
peak integral error from gaussian
1.232689e+03
Integral 66-116
1.183574e+02
Integral 66-116 Error
2.541489e+01
mean from gaussian
8.946950e+01
mean error from gaussian
5.118836e+01
sigma from gaussian
2.708714e+00
sigma error from gaussian
1.999933e+02

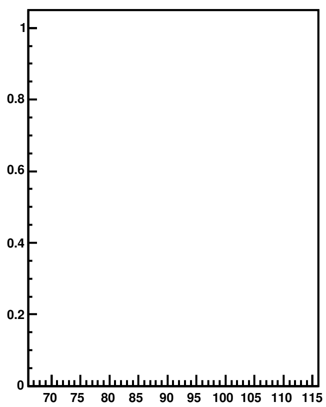
Zee dilepton masses for Z peak



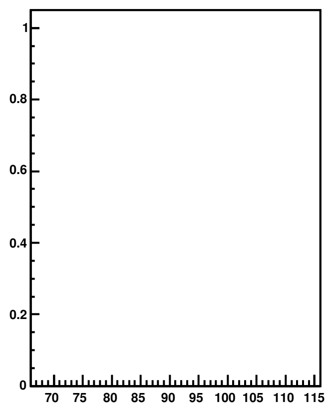
Zmumu dilepton masses for Z peak



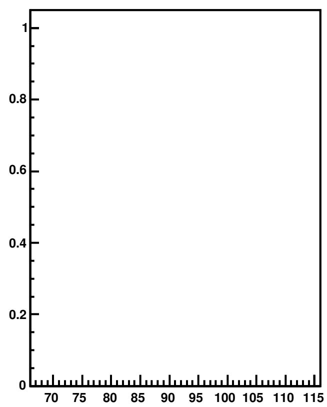
Ztautau dilepton masses for Z peak

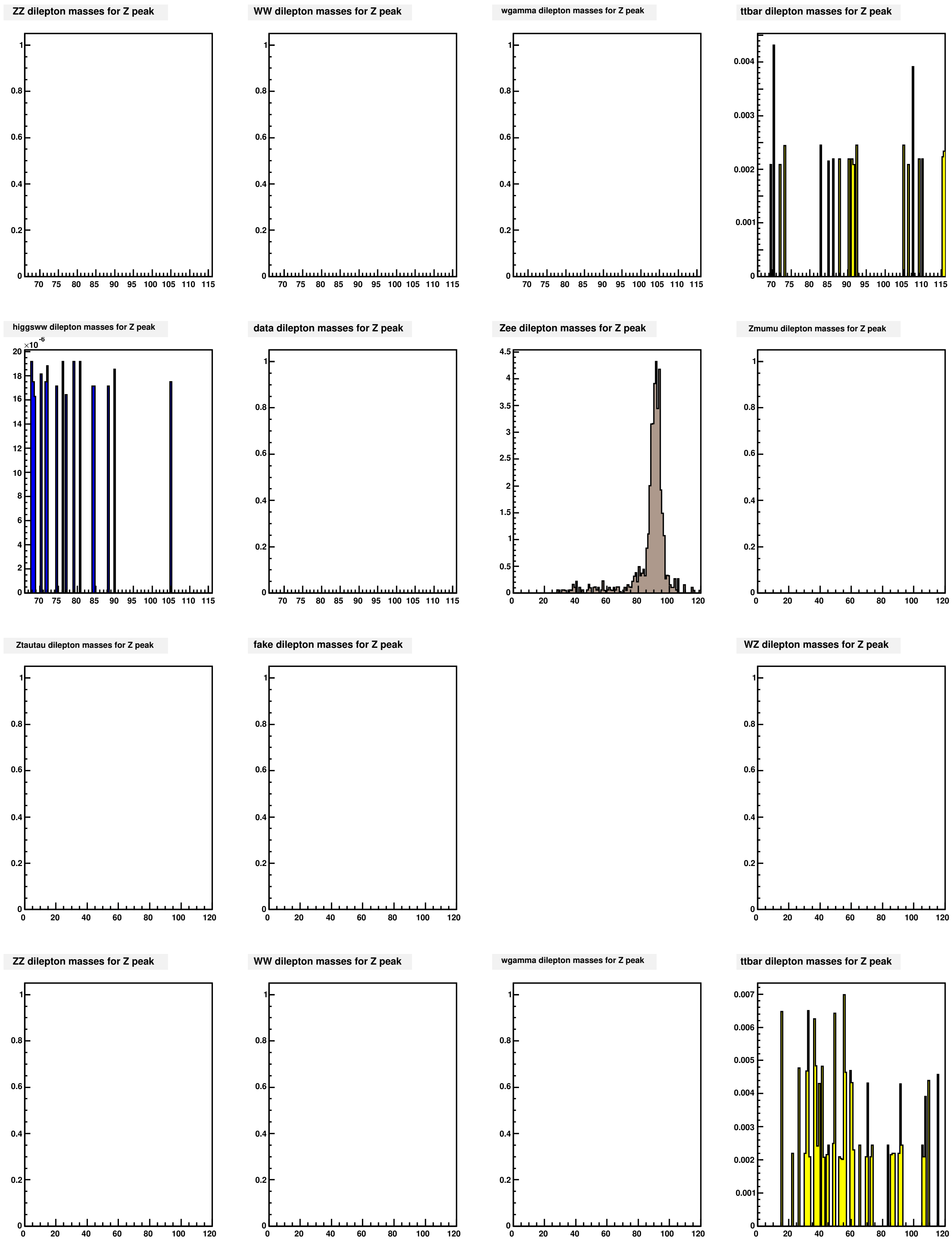


fake dilepton masses for Z peak

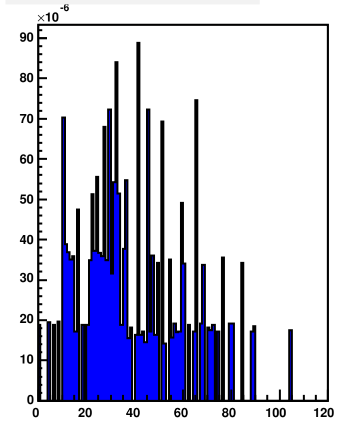


WZ dilepton masses for Z peak

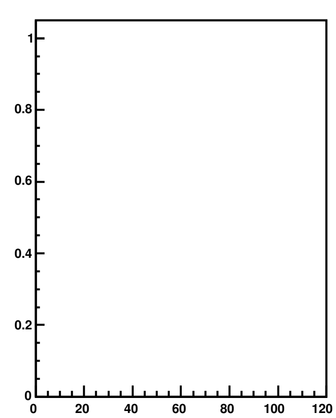



ZZ dilepton masses for Z peak
WW dilepton masses for Z peak
wgamma dilepton masses for Z peak
ttbar dilepton masses for Z peak
higgsww dilepton masses for Z peak
data dilepton masses for Z peak
Zee dilepton masses for Z peak
Zmumu dilepton masses for Z peak
Ztautau dilepton masses for Z peak
fake dilepton masses for Z peak
WZ dilepton masses for Z peak
ZZ dilepton masses for Z peak
WW dilepton masses for Z peak
wgamma dilepton masses for Z peak
ttbar dilepton masses for Z peak

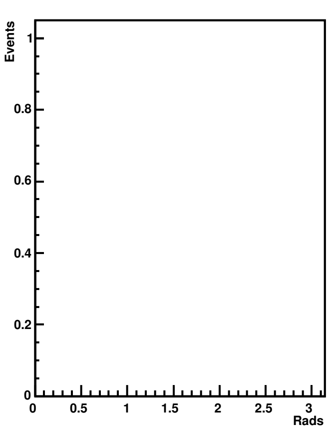
higgsww dilepton masses for Z peak



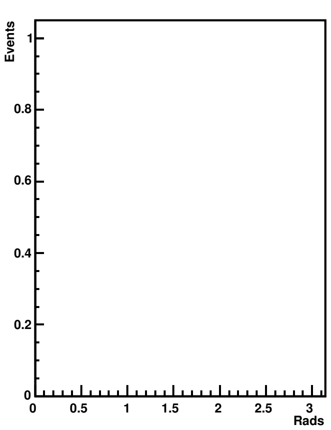
data dilepton masses for Z peak



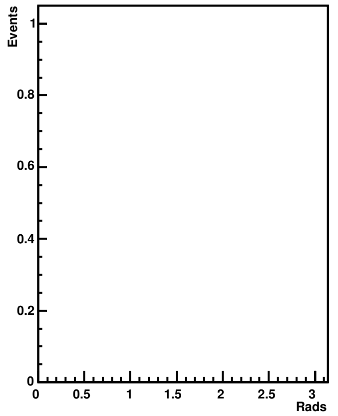
Zee lepton angular separation



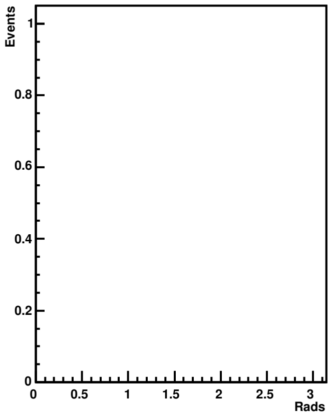

Zmumu lepton angular separation



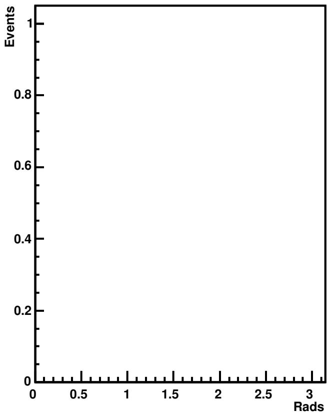

Ztautau lepton angular separation



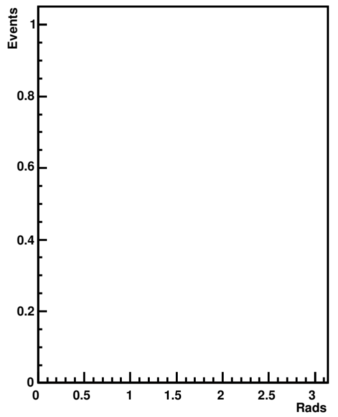

fake lepton angular separation



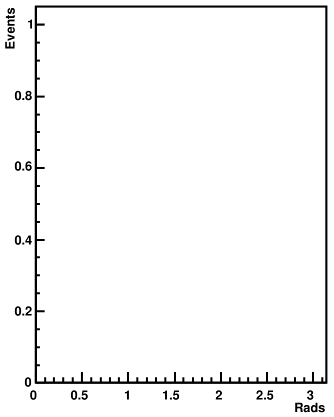

WZ lepton angular separation



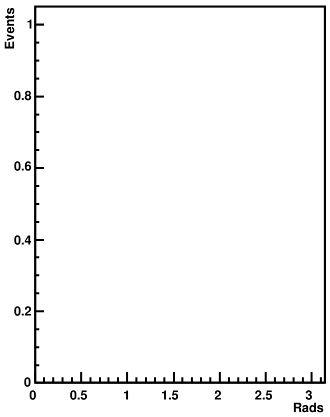

ZZ lepton angular separation



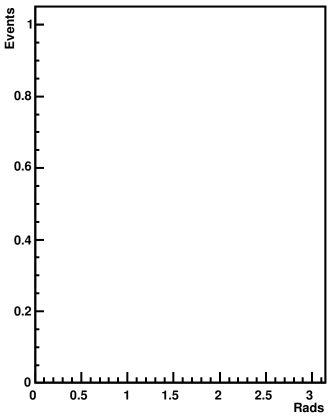

WW lepton angular separation



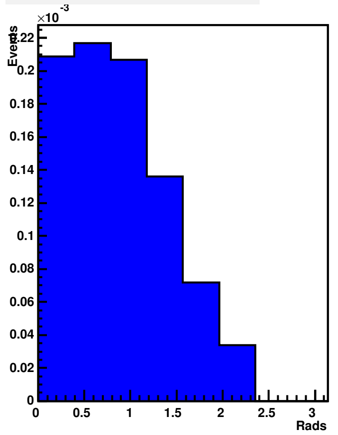

wgamma lepton angular separation



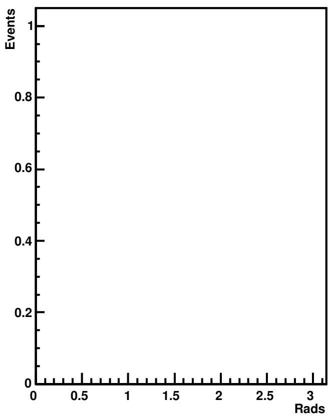

ttbar lepton angular separation



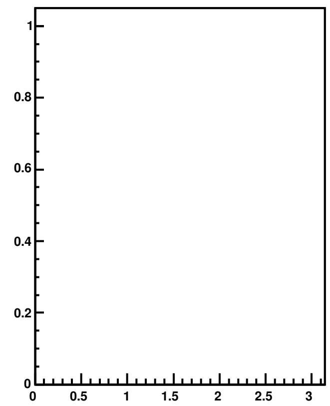

higgsww lepton angular separation



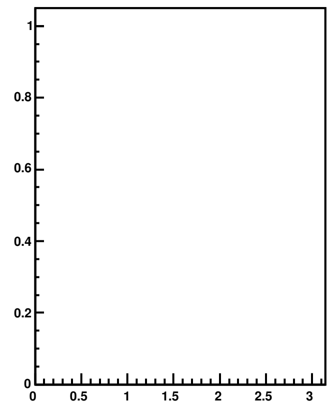

data lepton angular separation



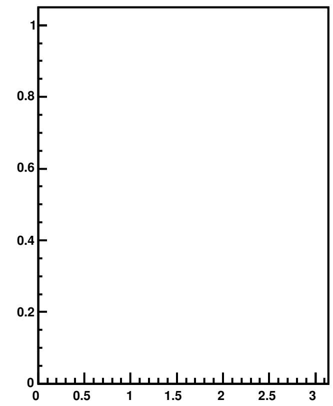

Zee dildphi in ALLfor like



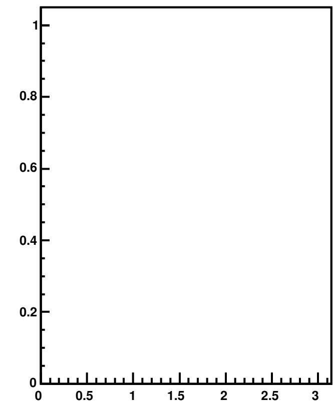
Zmumu dildphi in ALLfor like



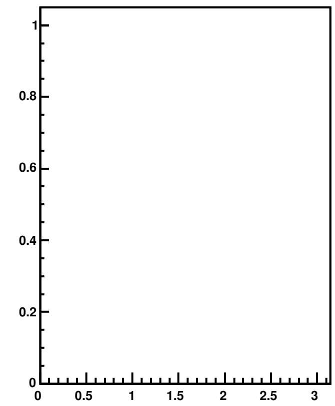
Ztautau dildphi in ALLfor like



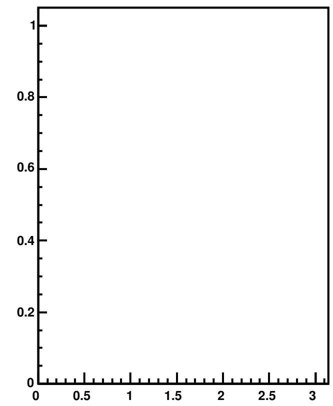
fake dildphi in ALLfor like



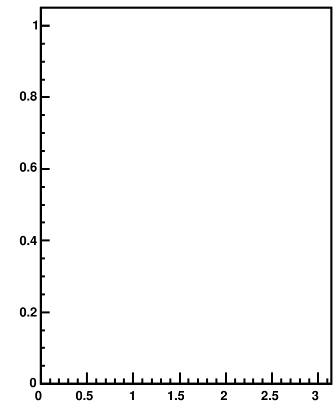
WZ dildphi in ALLfor like



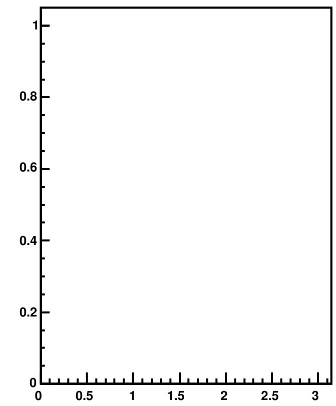
ZZ dildphi in ALLfor like



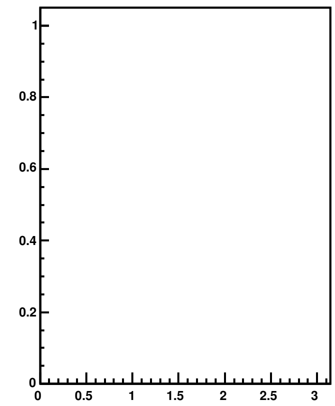
WW dildphi in ALLfor like



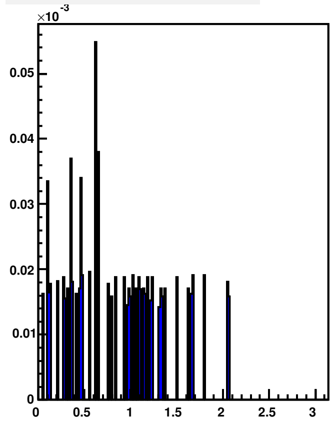
wgamma dildphi in ALLfor like



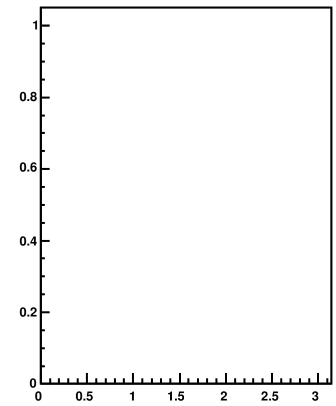
ttbar dildphi in ALLfor like



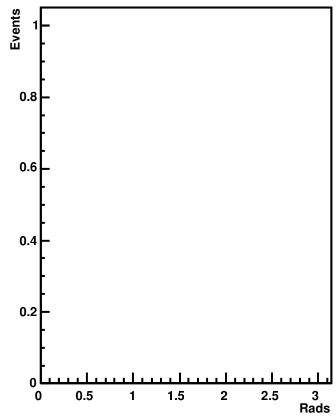
higgsww dildphi in ALLfor like



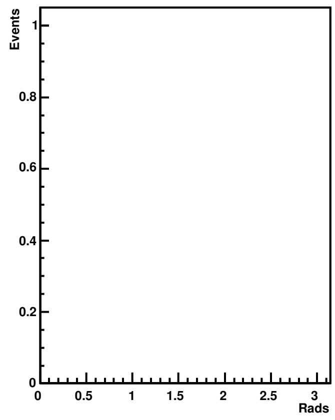

data dildphi in ALLfor like



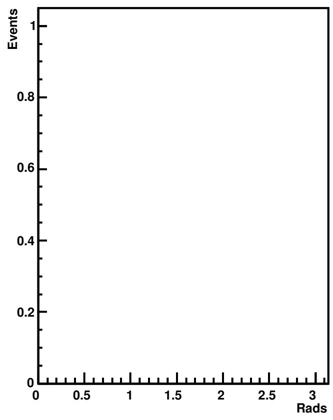
Zee lepton angular separation of electrons



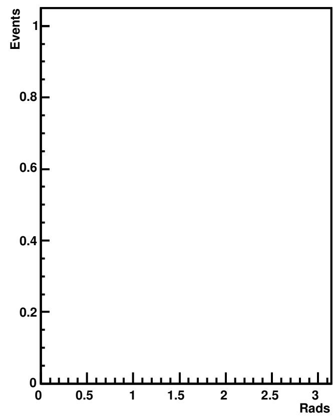

Zmumu lepton angular separation of electrons



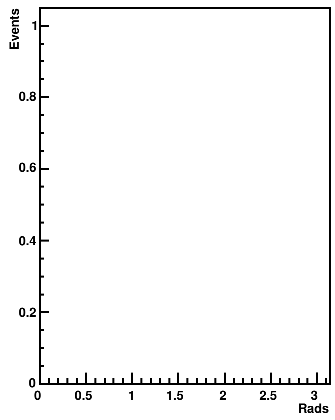

Ztautau lepton angular separation of electrons

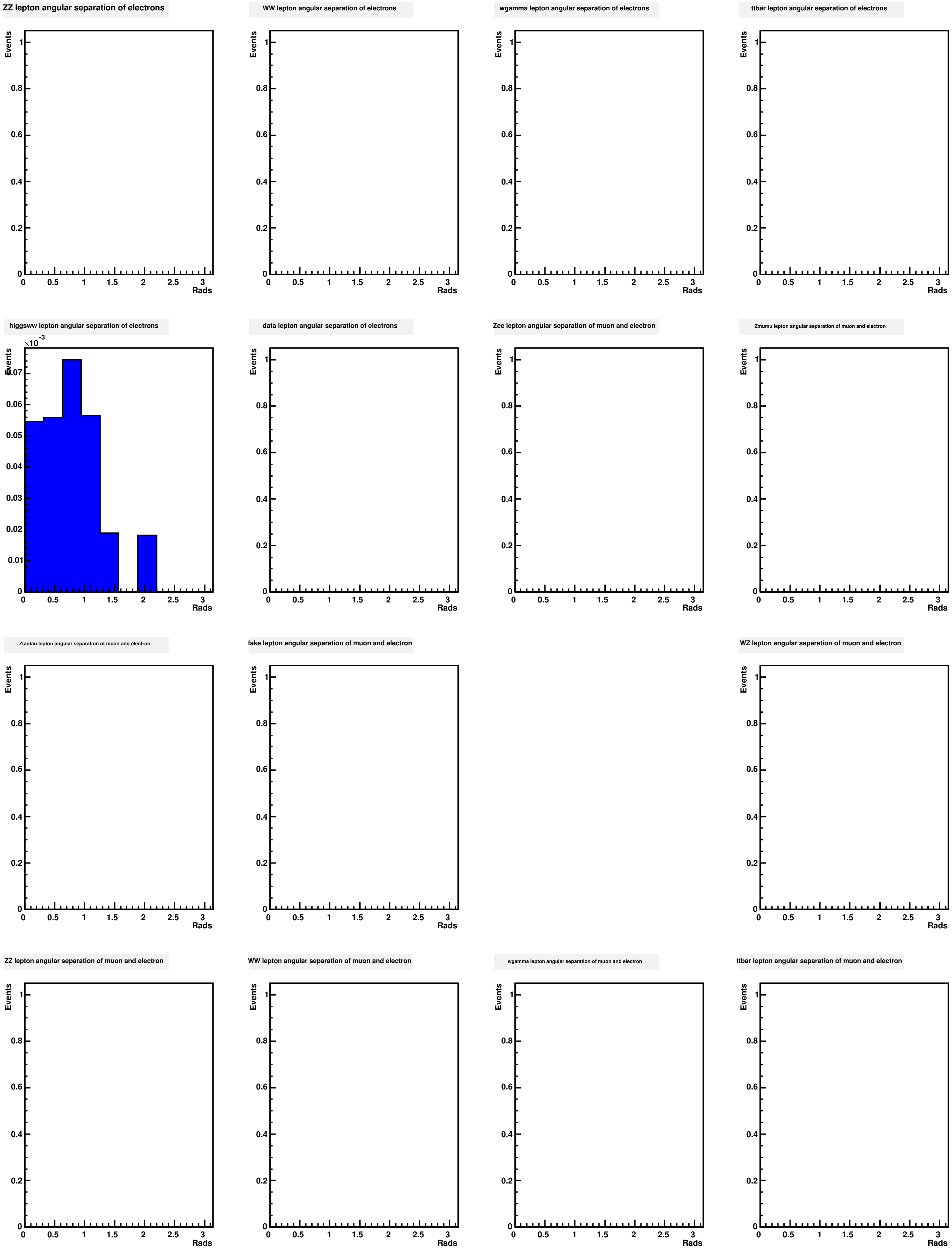



fake lepton angular separation of electrons

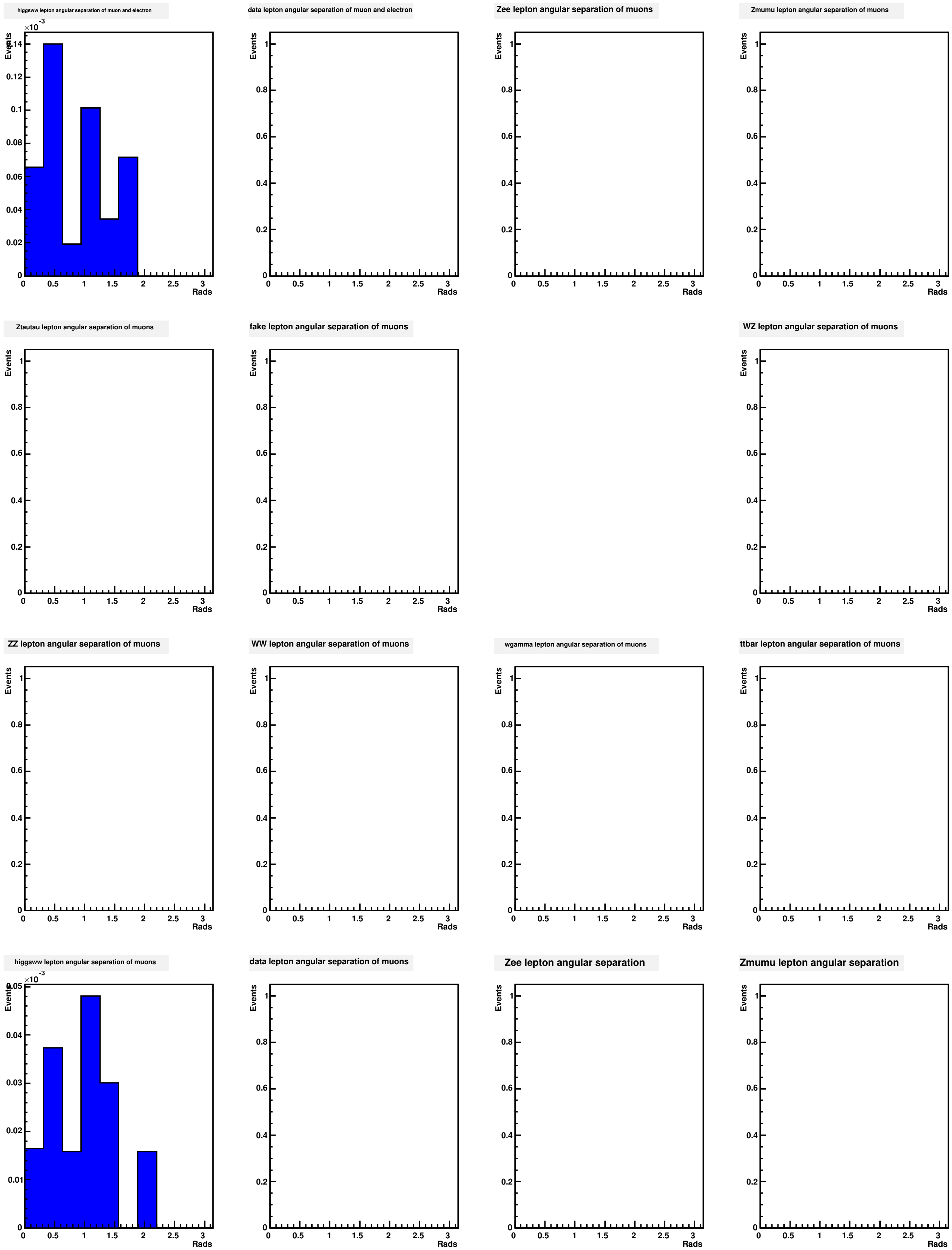


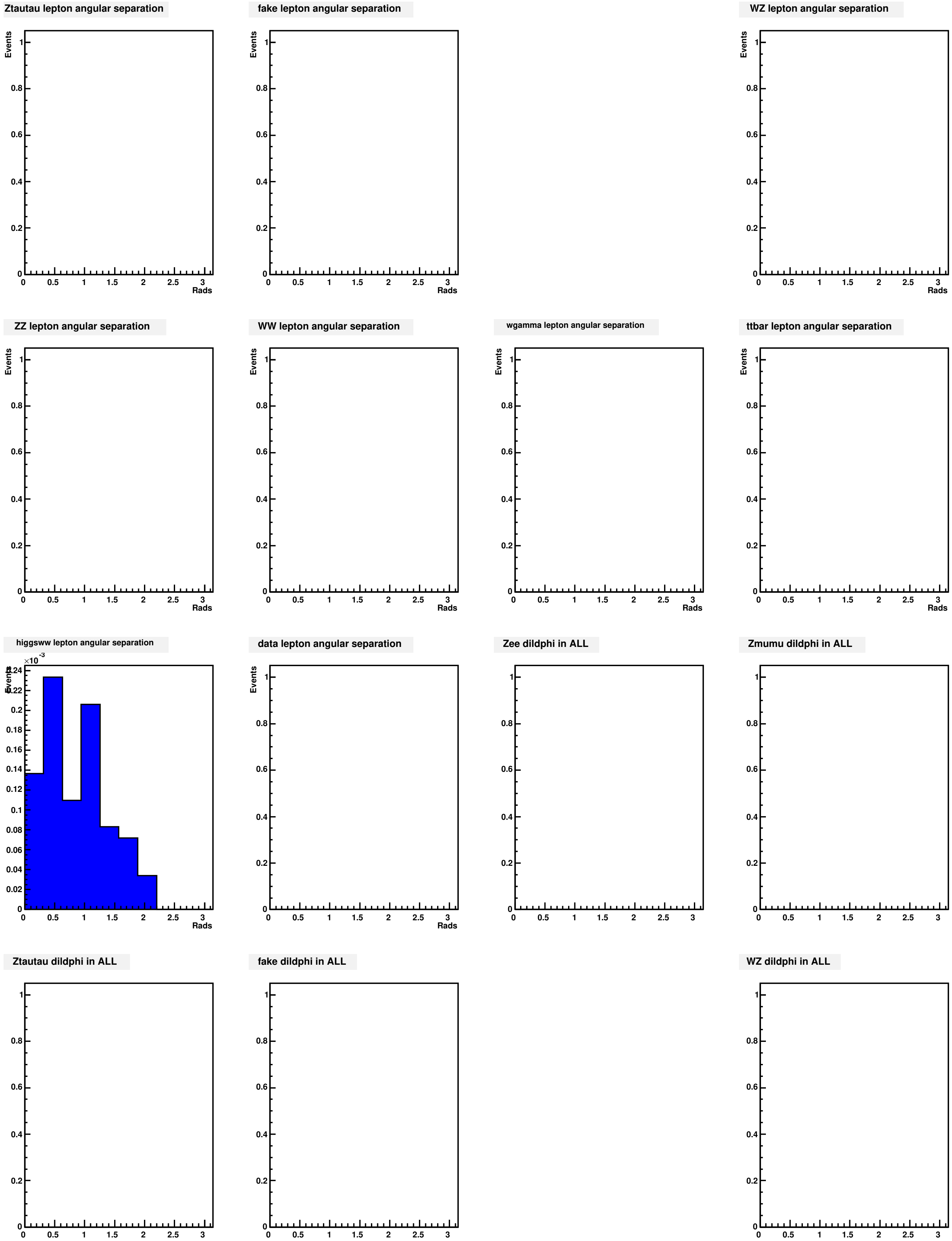

WZ lepton angular separation of electrons



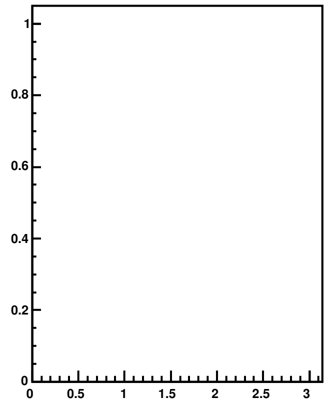


ZZ lepton angular separation of electrons
WW lepton angular separation of electrons
wgamma lepton angular separation of electrons
ttbar lepton angular separation of electrons
higgsww lepton angular separation of electrons
data lepton angular separation of electrons
Zee lepton angular separation of muon and electron
Zmumu lepton angular separation of muon and electron
Ztautau lepton angular separation of muon and electron
fake lepton angular separation of muon and electron
WZ lepton angular separation of muon and electron
ZZ lepton angular separation of muon and electron
WW lepton angular separation of muon and electron
wgamma lepton angular separation of muon and electron
ttbar lepton angular separation of muon and electron
Events
Rads
×10^-3

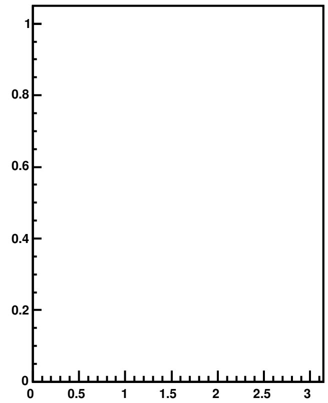

higgsww lepton angular separation of muon and electron
data lepton angular separation of muon and electron
Zee lepton angular separation of muons
Zmumu lepton angular separation of muons
Ztautau lepton angular separation of muons
fake lepton angular separation of muons
WZ lepton angular separation of muons
ZZ lepton angular separation of muons
WW lepton angular separation of muons
wgamma lepton angular separation of muons
ttbar lepton angular separation of muons
higgsww lepton angular separation of muons
data lepton angular separation of muons
Zee lepton angular separation
Zmumu lepton angular separation
Events
Rads
×10^-3


Ztautau lepton angular separation
fake lepton angular separation
WZ lepton angular separation
ZZ lepton angular separation
WW lepton angular separation
wgamma lepton angular separation
ttbar lepton angular separation
higgsww lepton angular separation
data lepton angular separation
Zee dildphi in ALL
Zmumu dildphi in ALL
Ztautau dildphi in ALL
fake dildphi in ALL
WZ dildphi in ALL
Events
Rads
×10^-3

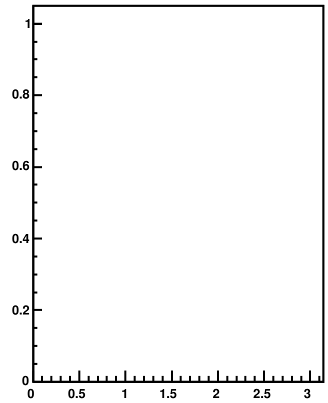
ZZ dildphi in ALL



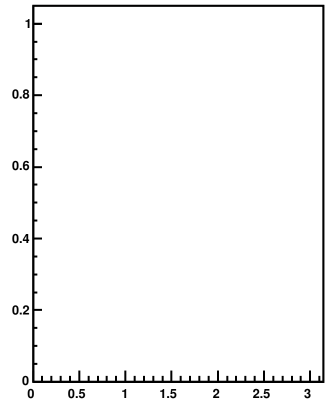

WW dildphi in ALL



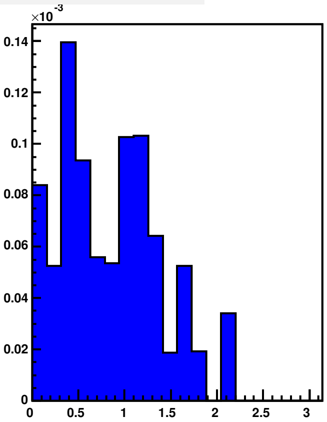

wgamma dildphi in ALL



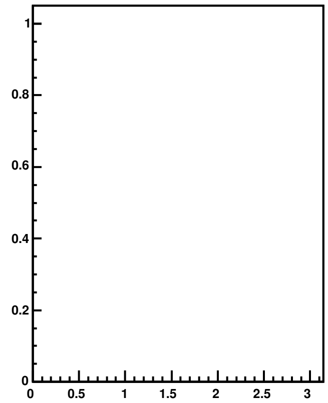

ttbar dildphi in ALL



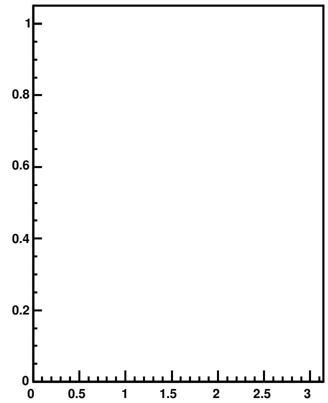

higgsww dildphi in ALL




data dildphi in ALL




Zee dphi, high JES

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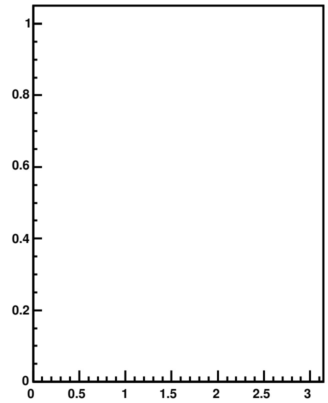
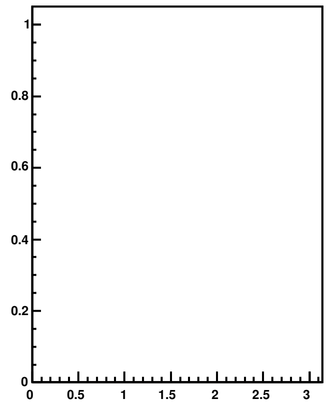
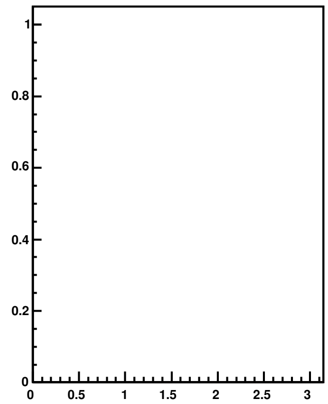


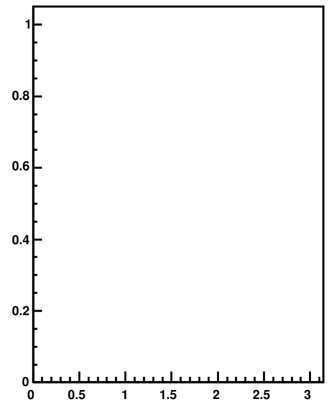

Ztautau dphi, high JES



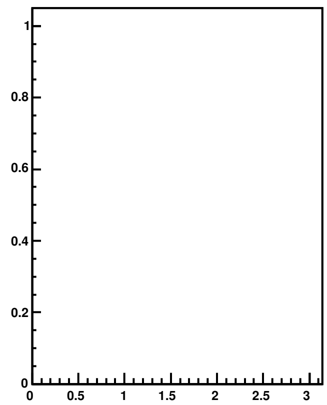

fake dphi, high JES



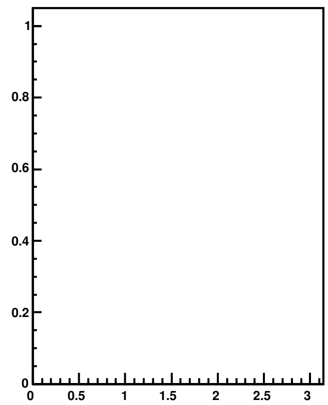

WZ dphi, high JES



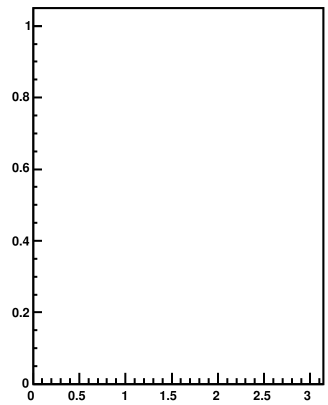

ZZ dphi, high JES



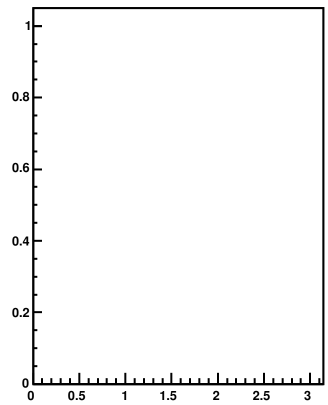

WW dphi, high JES

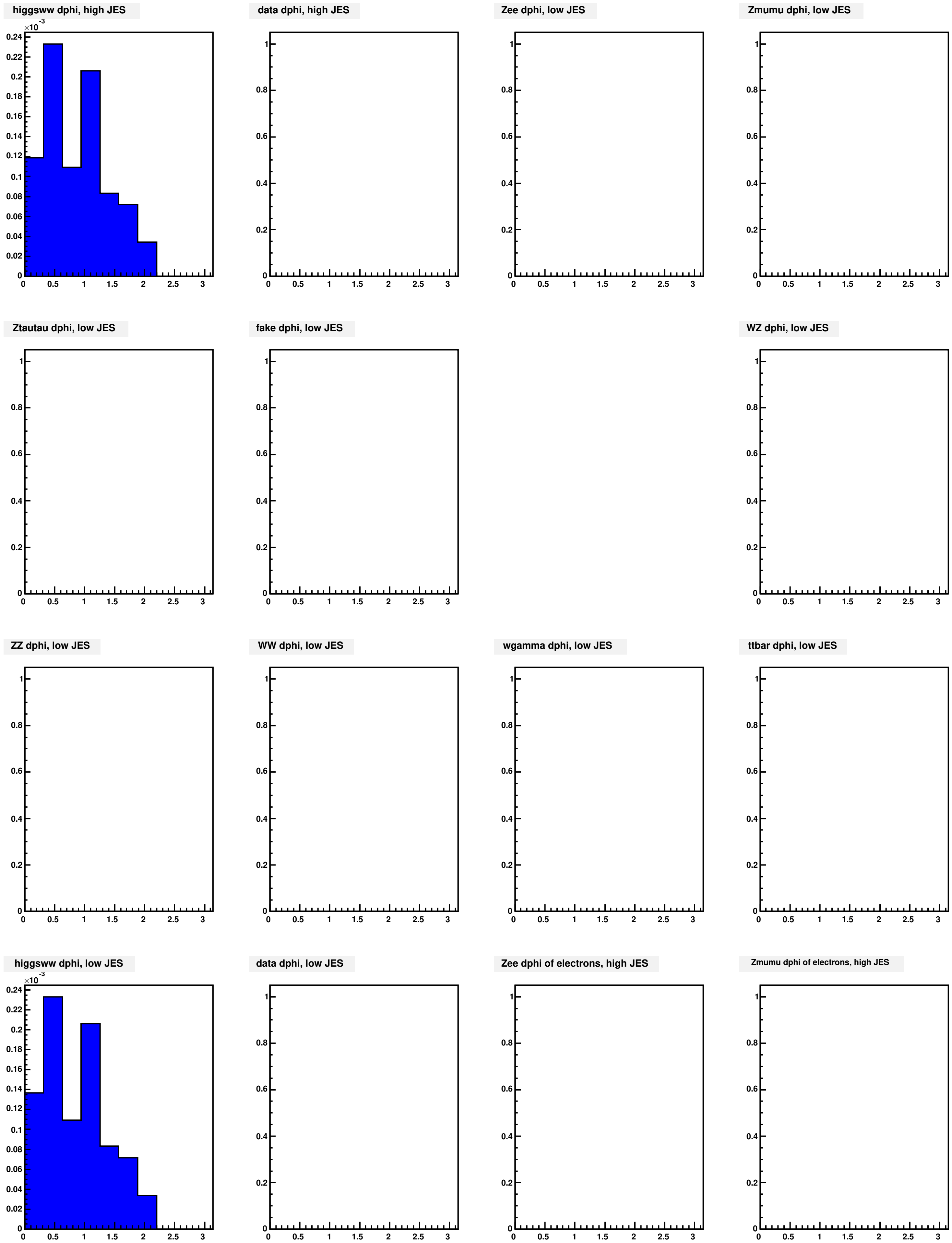



wgamma dphi, high JES




ttbar dphi, high JES




higgsww dphi, high JES
data dphi, high JES
Zee dphi, low JES
Zmumu dphi, low JES
Ztautau dphi, low JES
fake dphi, low JES
WZ dphi, low JES
ZZ dphi, low JES
WW dphi, low JES
wgamma dphi, low JES
ttbar dphi, low JES
higgsww dphi, low JES
data dphi, low JES
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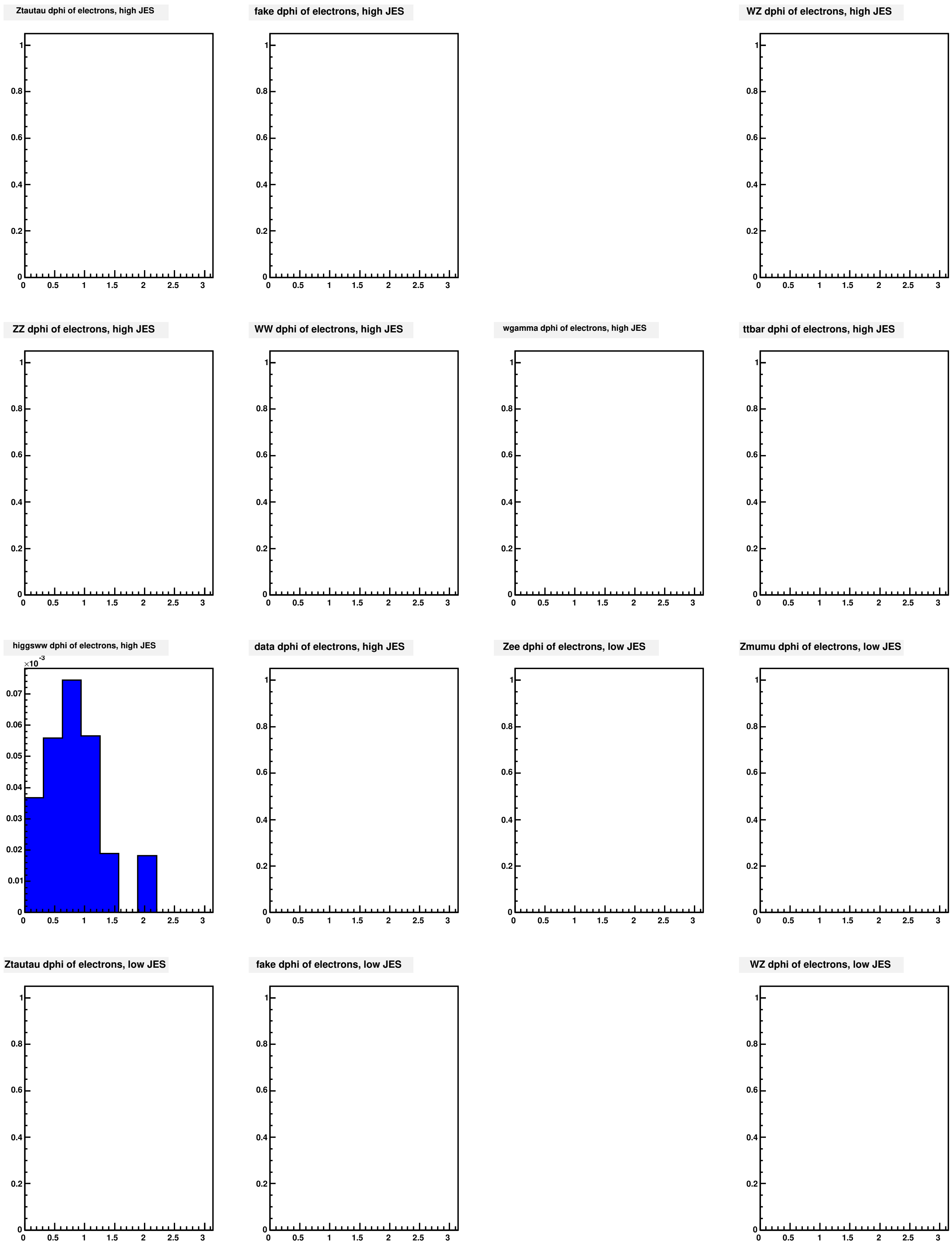
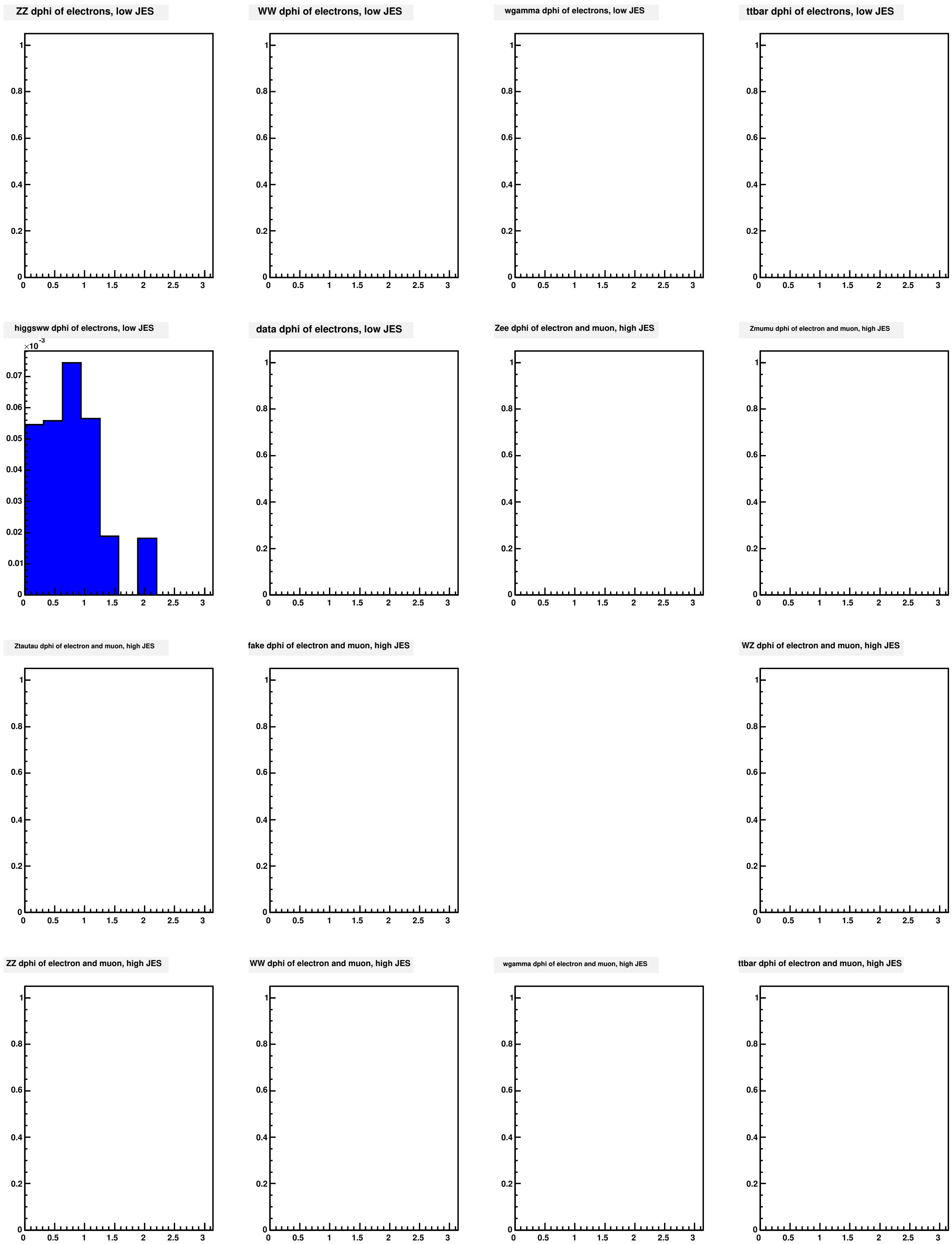
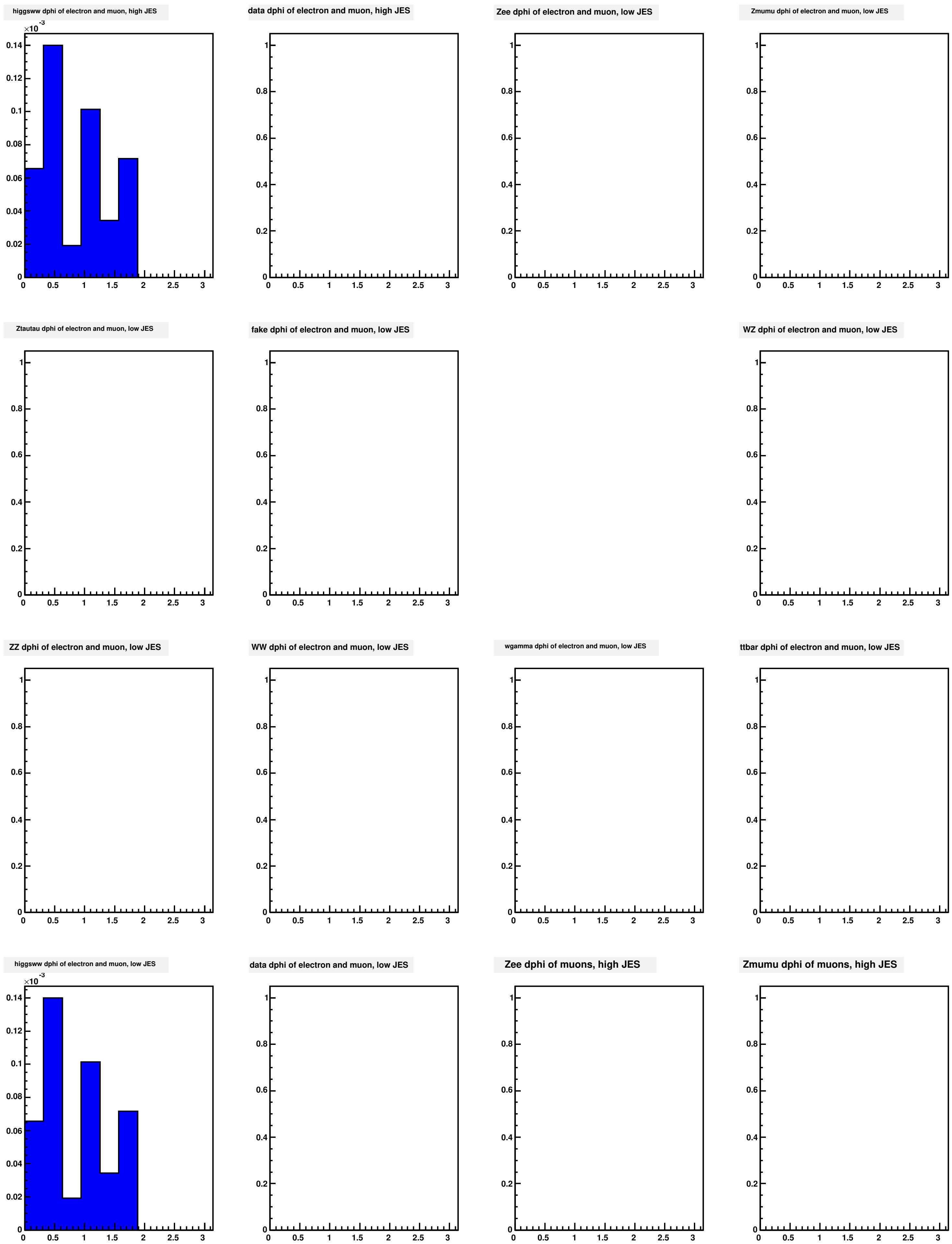
Zmumu dphi of electrons, high JES


Ztautau dphi of electrons, high JES
fake dphi of electrons, high JES
WZ dphi of electrons, high JES
ZZ dphi of electrons, high JES
WW dphi of electrons, high JES
wgamma dphi of electrons, high JES
ttbar dphi of electrons, high JES
higgsww dphi of electrons, high JES
data dphi of electrons, high JES
Zee dphi of electrons, low JES
Zmumu dphi of electrons, low JES
Ztautau dphi of electrons, low JES
fake dphi of electrons, low JES
WZ dphi of electrons, low JES

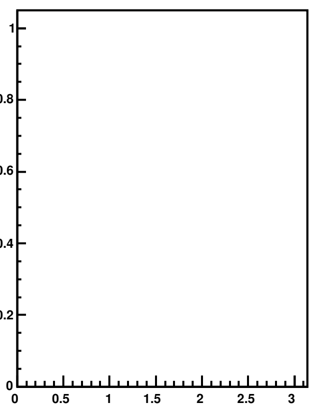


ZZ dphi of electrons, low JES
WW dphi of electrons, low JES
wgamma dphi of electrons, low JES
ttbar dphi of electrons, low JES
higgsww dphi of electrons, low JES
×10^-3
data dphi of electrons, low JES
Zee dphi of electron and muon, high JES
Zmumu dphi of electron and muon, high JES
Ztautau dphi of electron and muon, high JES
fake dphi of electron and muon, high JES
WZ dphi of electron and muon, high JES
ZZ dphi of electron and muon, high JES
WW dphi of electron and muon, high JES
wgamma dphi of electron and muon, high JES
ttbar dphi of electron and muon, high JES

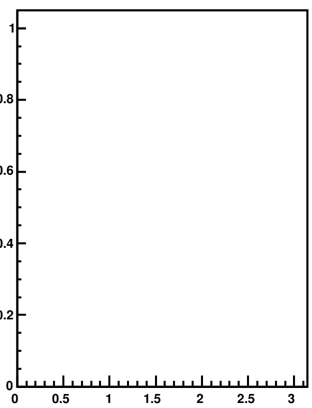


higgsww dphi of electron and muon, high JES
data dphi of electron and muon, high JES
Zee dphi of electron and muon, low JES
Zmumu dphi of electron and muon, low JES
Ztautau dphi of electron and muon, low JES
fake dphi of electron and muon, low JES
WZ dphi of electron and muon, low JES
ZZ dphi of electron and muon, low JES
WW dphi of electron and muon, low JES
wgamma dphi of electron and muon, low JES
ttbar dphi of electron and muon, low JES
higgsww dphi of electron and muon, low JES
data dphi of electron and muon, low JES
Zee dphi of muons, high JES
Zmumu dphi of muons, high JES

Ztautau dphi of muons, high JES




fake dphi of muons, high JES

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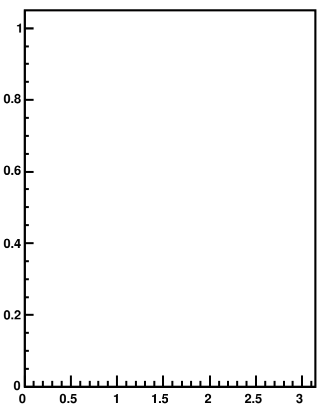
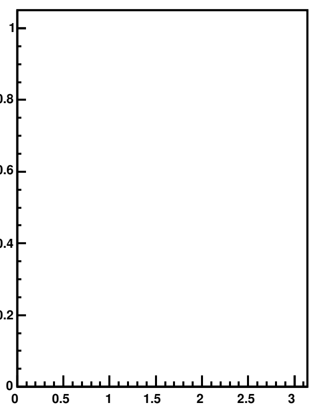
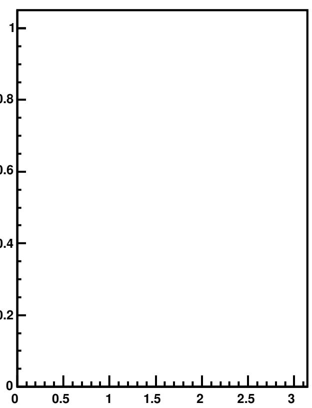


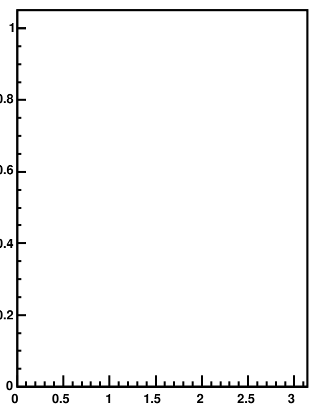

ZZ dphi of muons, high JES



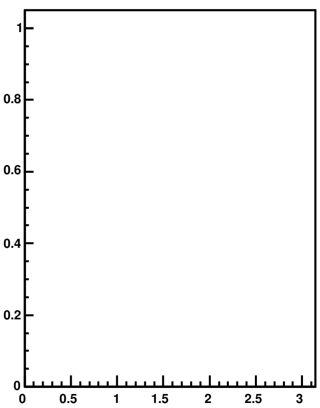

WW dphi of muons, high JES



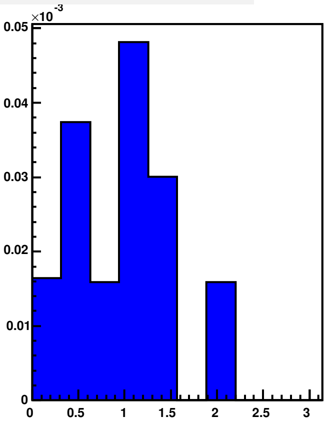

wgamma dphi of muons, high JES



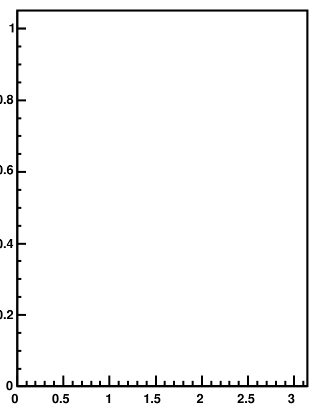

ttbar dphi of muons, high JES



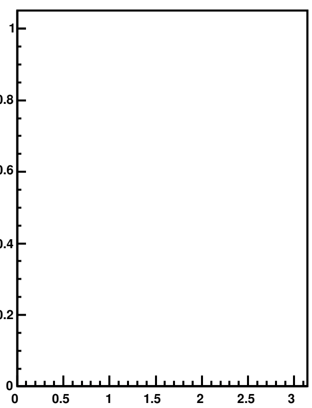

higgsww dphi of muons, high JES



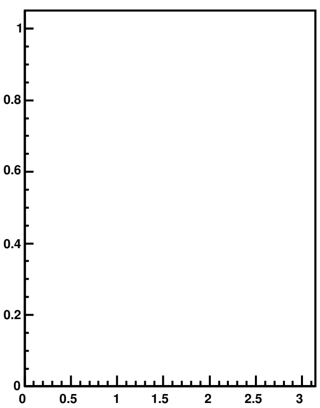

data dphi of muons, high JES



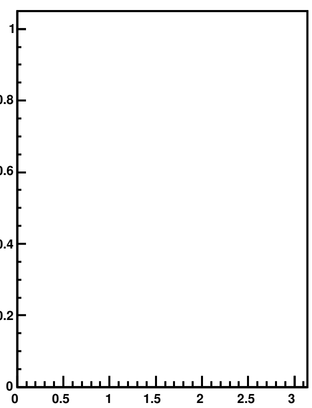

Zee dphi of muons, low JES



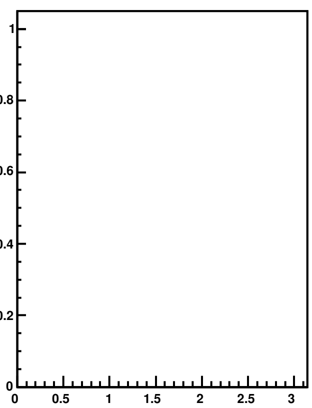

Zmumu dphi of muons, low JES



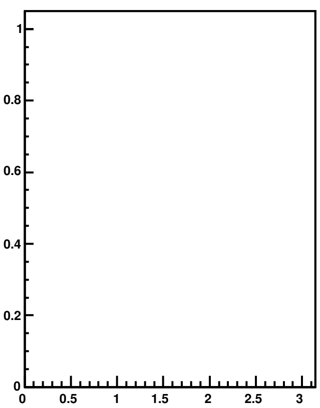

Ztautau dphi of muons, low JES

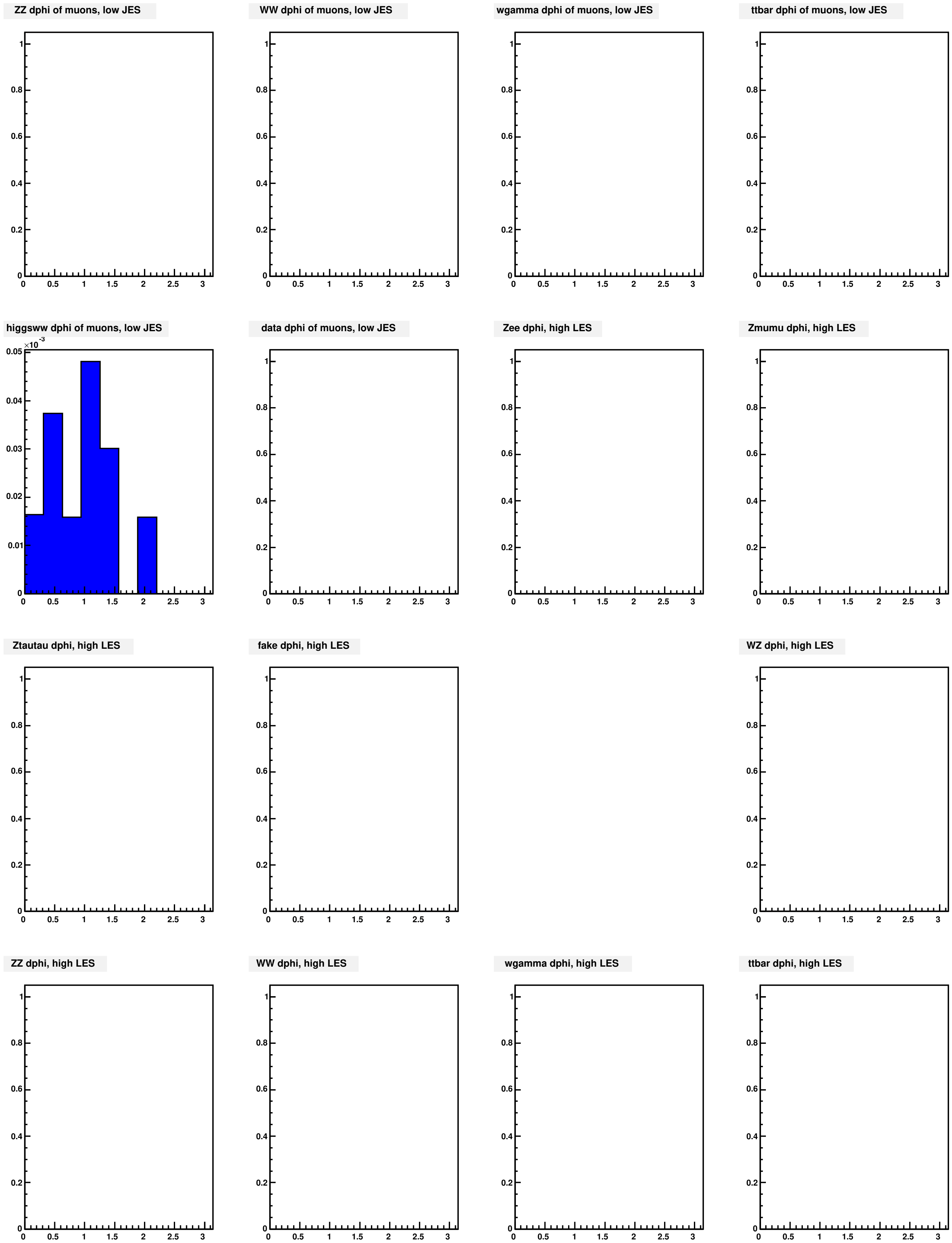


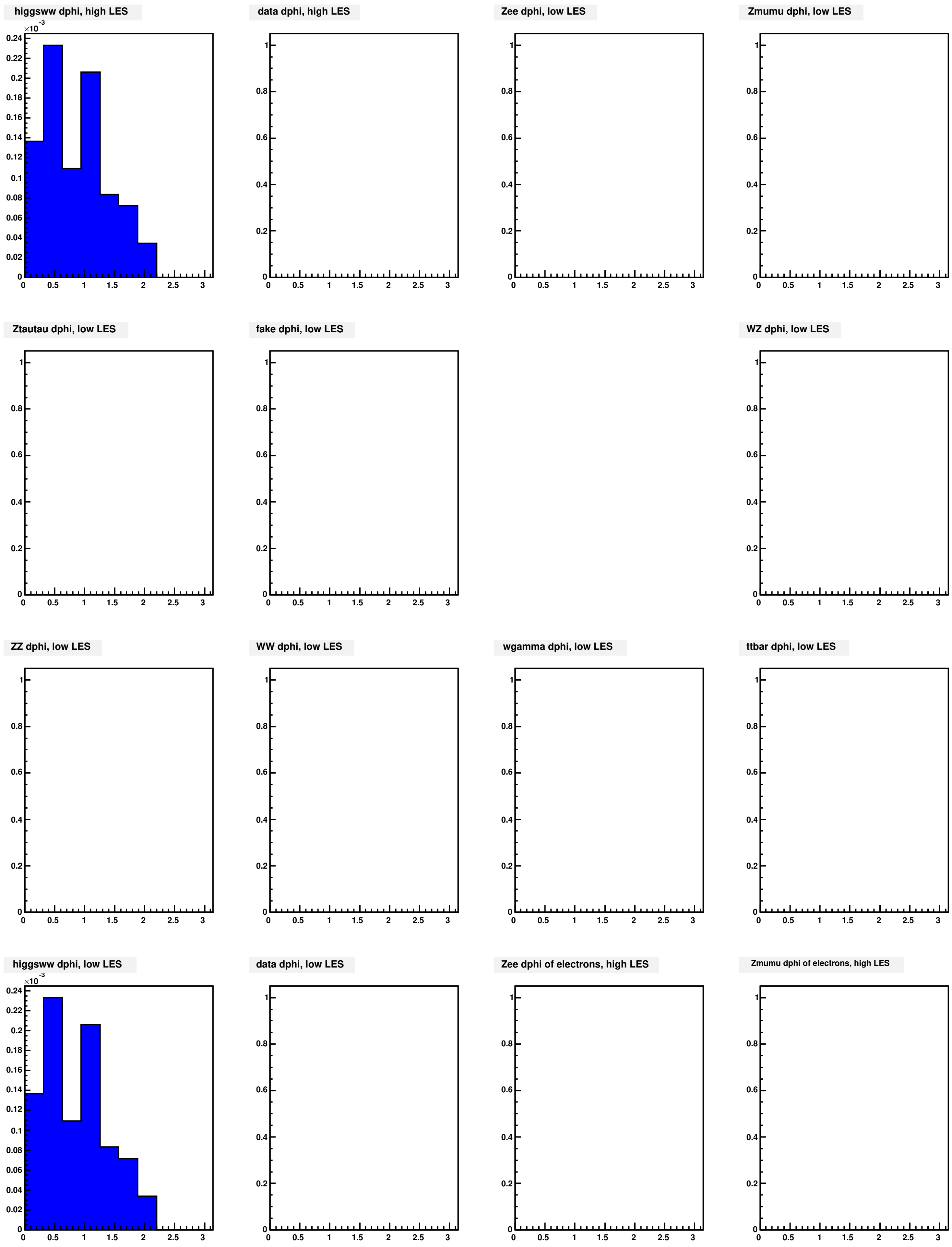

fake dphi of muons, low JES



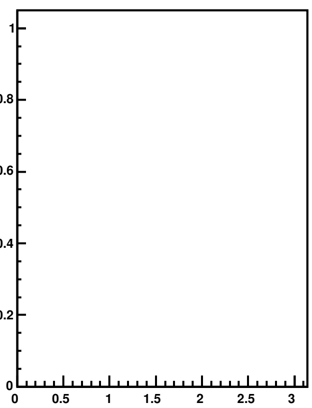

WZ dphi of muons, low JES



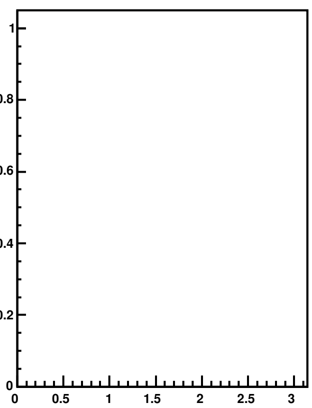

ZZ dphi of muons, low JES
WW dphi of muons, low JES
wgamma dphi of muons, low JES
ttbar dphi of muons, low JES
higgsww dphi of muons, low JES
×10^-3
data dphi of muons, low JES
Zee dphi, high LES
Zmumu dphi, high LES
Ztautau dphi, high LES
fake dphi, high LES
WZ dphi, high LES
ZZ dphi, high LES
WW dphi, high LES
wgamma dphi, high LES
ttbar dphi, high LES


higgsww dphi, high LES
data dphi, high LES
Zee dphi, low LES
Zmumu dphi, low LES
Ztautau dphi, low LES
fake dphi, low LES
WZ dphi, low LES
ZZ dphi, low LES
WW dphi, low LES
wgamma dphi, low LES
ttbar dphi, low LES
higgsww dphi, low LES
data dphi, low LES
Zee dphi of electrons, high LES
Zmumu dphi of electrons, high LES

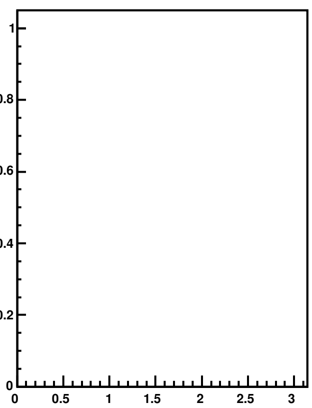
Ztautau dphi of electrons, high LES



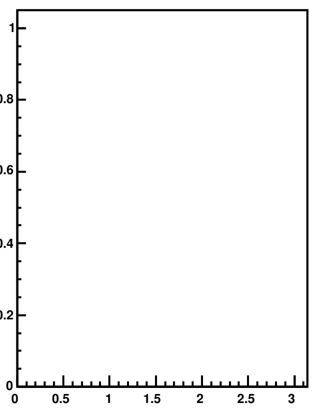

fake dphi of electrons, high LES



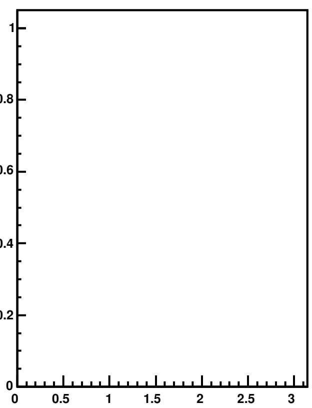

WZ dphi of electrons, high LES



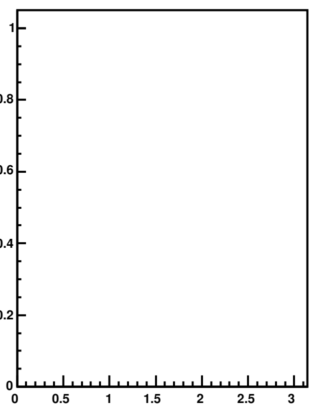

ZZ dphi of electrons, high LES



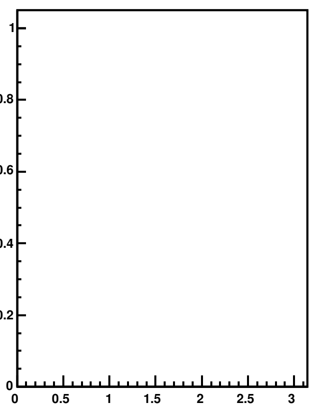

WW dphi of electrons, high LES



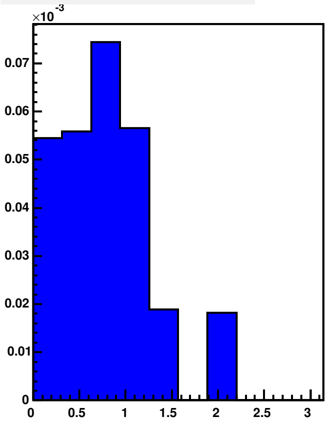

wgamma dphi of electrons, high LES



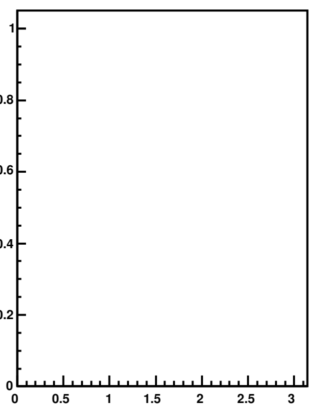

ttbar dphi of electrons, high LES



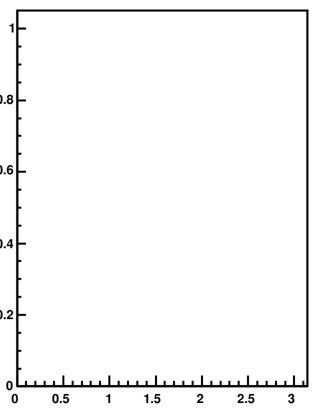

higgsww dphi of electrons, high LES



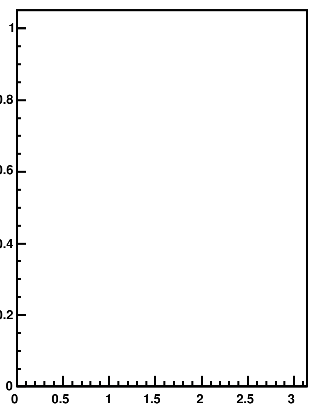

data dphi of electrons, high LES



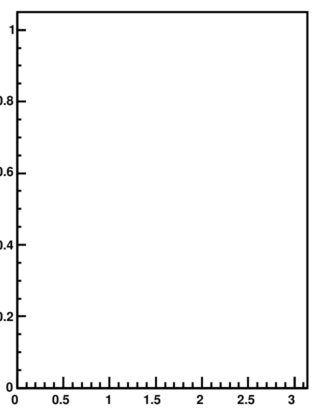

Zee dphi of electrons, low LES



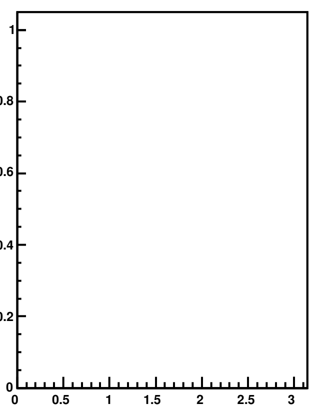

Zmumu dphi of electrons, low LES



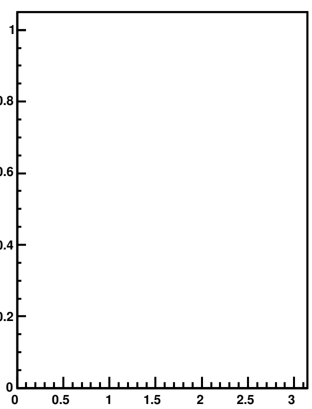

Ztautau dphi of electrons, low LES

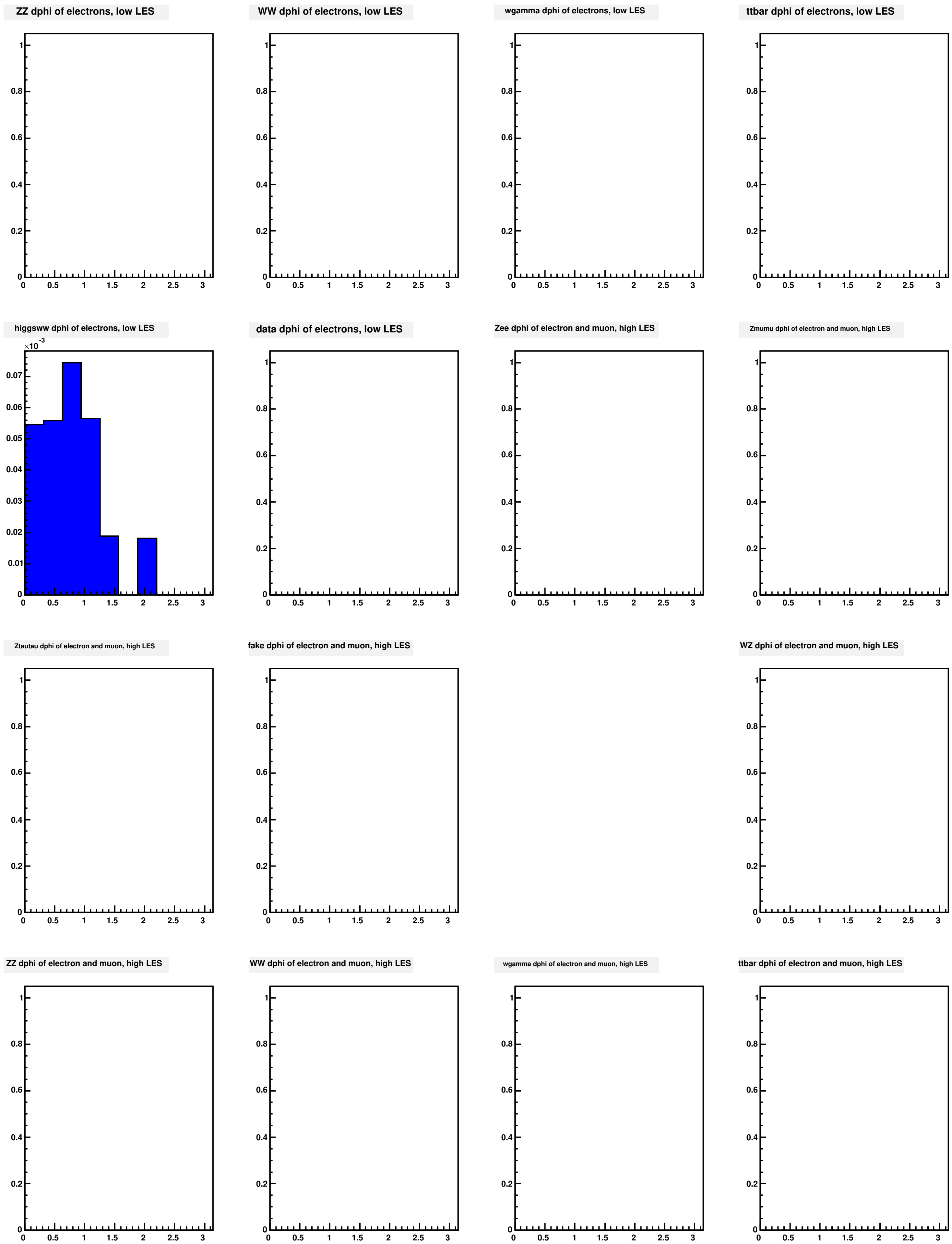



fake dphi of electrons, low LES

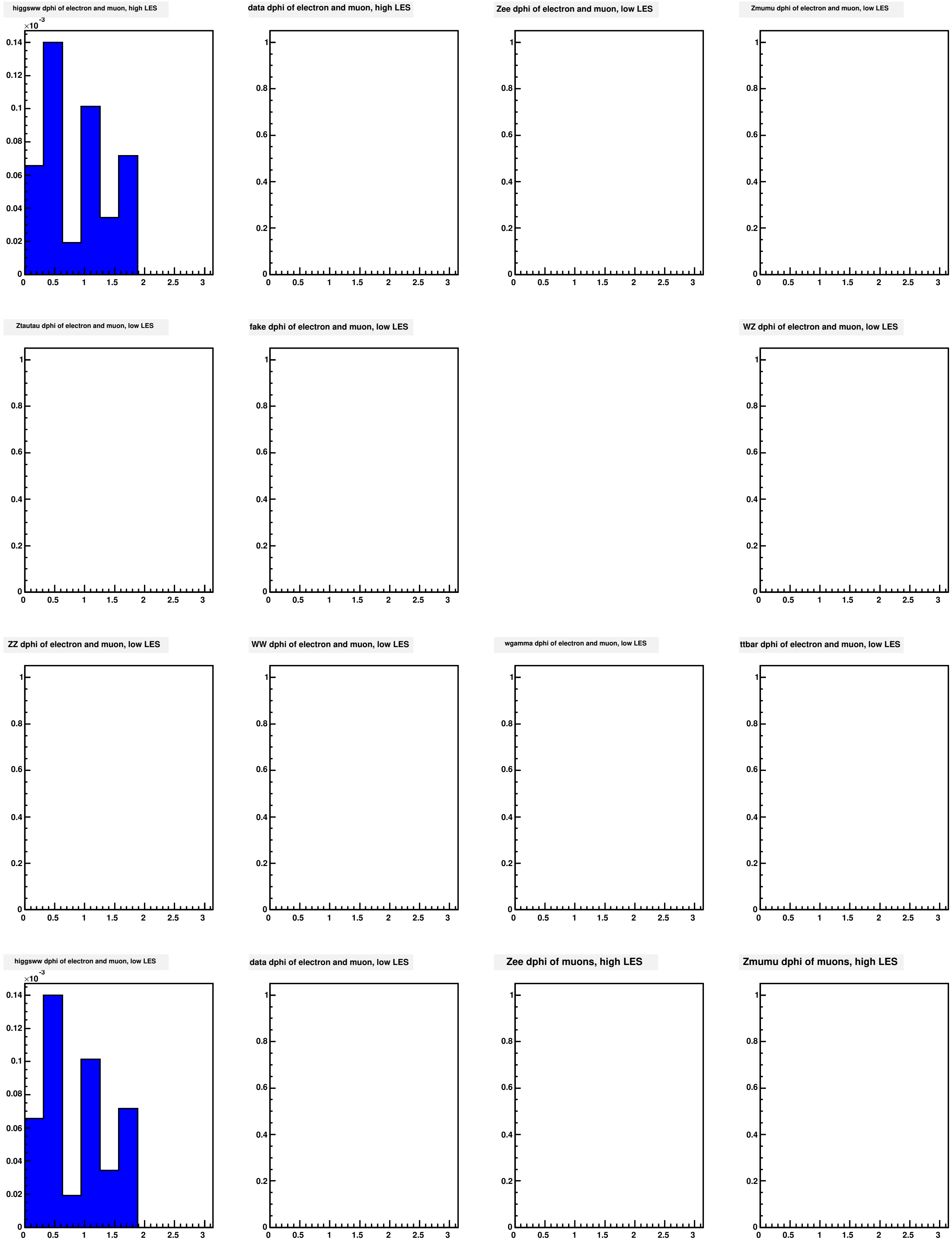


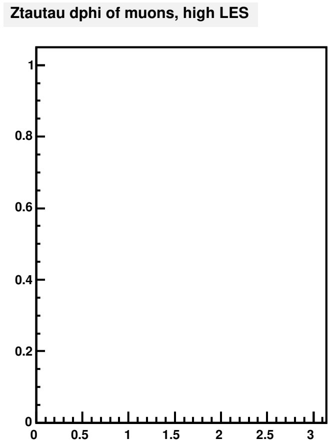

WZ dphi of electrons, low LES

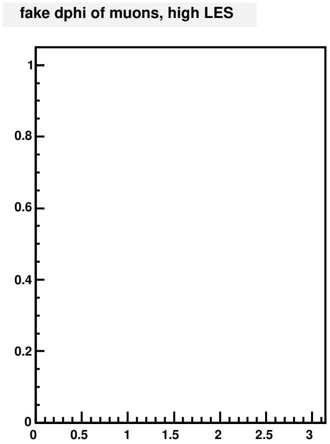


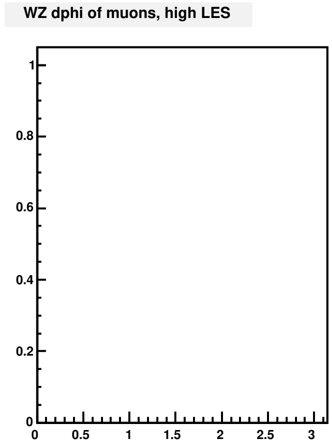


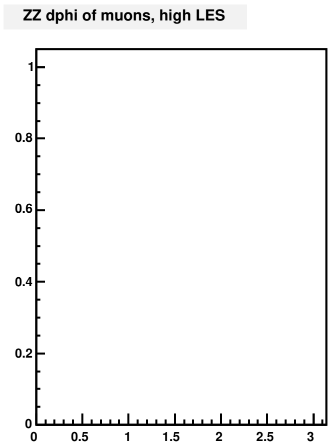
ZZ dphi of electrons, low LES
WW dphi of electrons, low LES
wgamma dphi of electrons, low LES
ttbar dphi of electrons, low LES
higgsww dphi of electrons, low LES
×10-3
data dphi of electrons, low LES
Zee dphi of electron and muon, high LES
Zmumu dphi of electron and muon, high LES
Ztautau dphi of electron and muon, high LES
fake dphi of electron and muon, high LES
WZ dphi of electron and muon, high LES
ZZ dphi of electron and muon, high LES
WW dphi of electron and muon, high LES
wgamma dphi of electron and muon, high LES
ttbar dphi of electron and muon, high LES

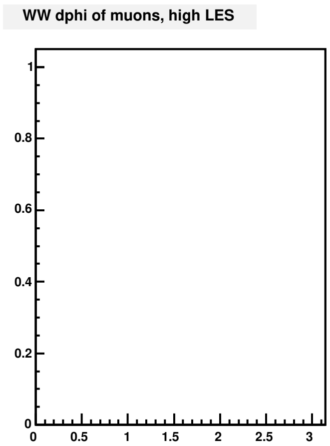

higgsww dphi of electron and muon, high LES
data dphi of electron and muon, high LES
Zee dphi of electron and muon, low LES
Zmumu dphi of electron and muon, low LES
Ztautau dphi of electron and muon, low LES
fake dphi of electron and muon, low LES
WZ dphi of electron and muon, low LES
ZZ dphi of electron and muon, low LES
WW dphi of electron and muon, low LES
wgamma dphi of electron and muon, low LES
ttbar dphi of electron and muon, low LES
higgsww dphi of electron and muon, low LES
data dphi of electron and muon, low LES
Zee dphi of muons, high LES
Zmumu dphi of muons, high LES


Ztautau dphi of muons, high LES


fake dphi of muons, high LES


WZ dphi of muons, high LES


ZZ dphi of muons, high LES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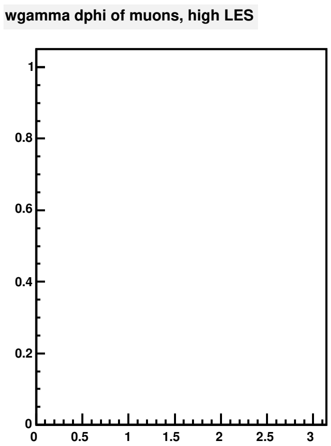
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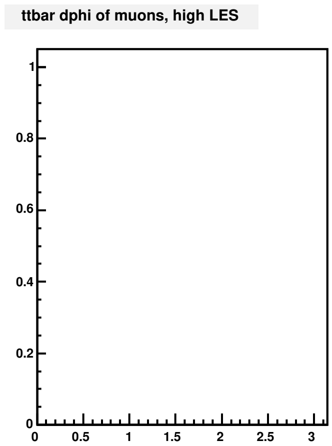
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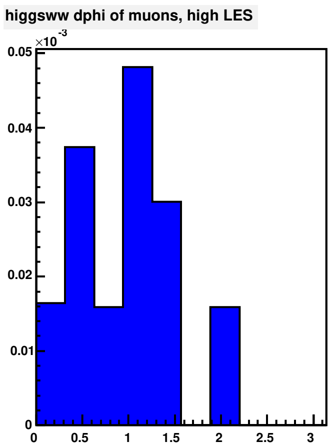
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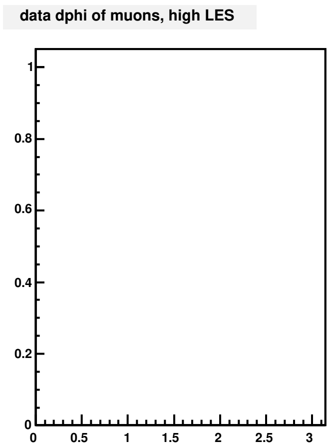
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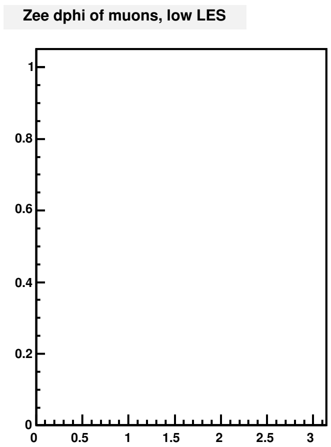
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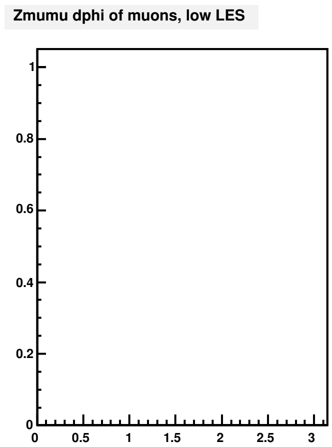
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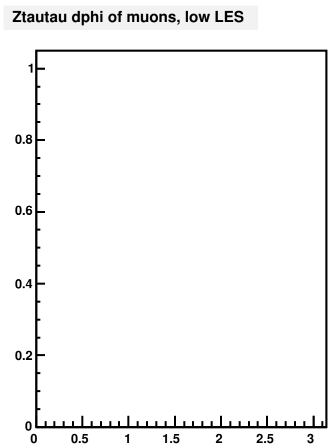
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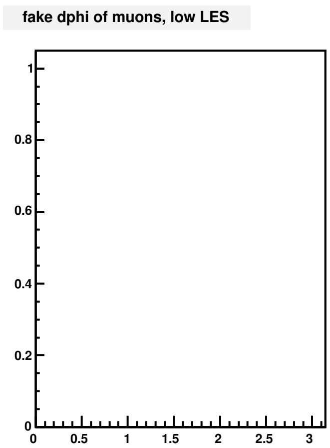
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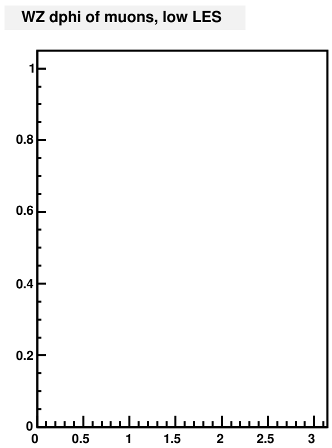
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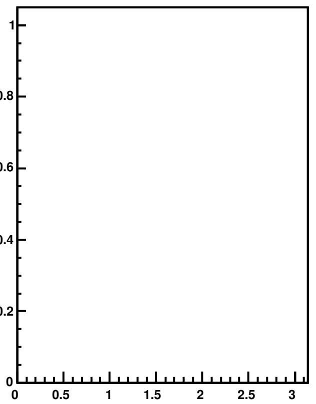

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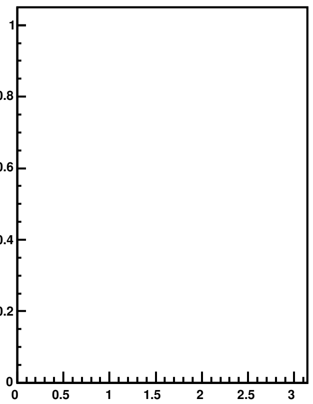

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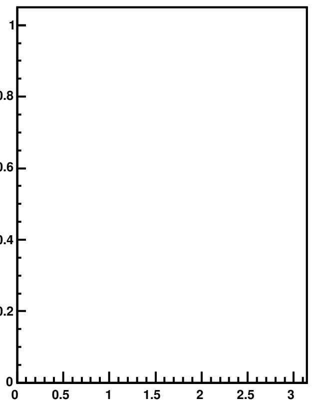

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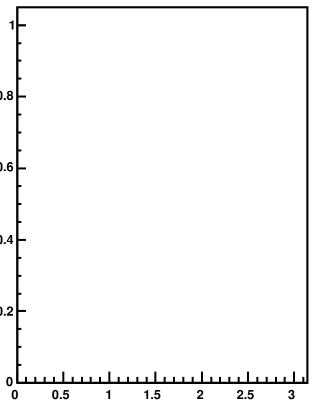

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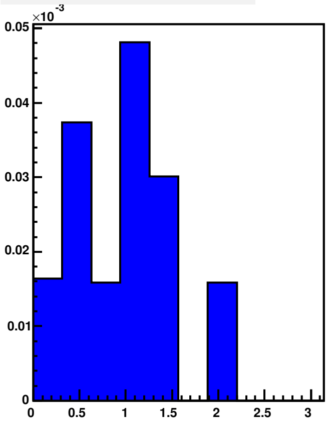

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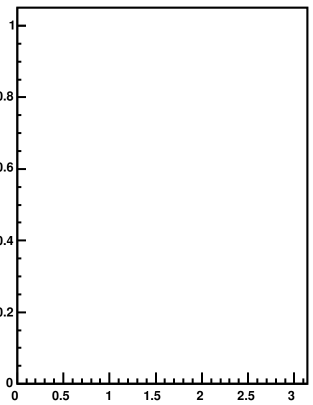

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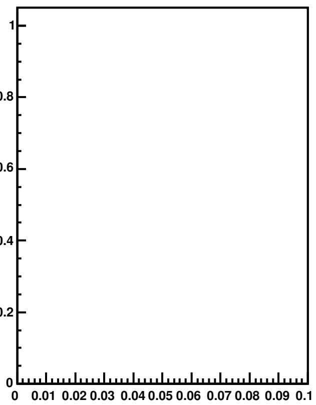

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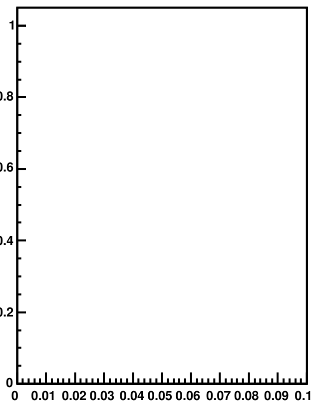

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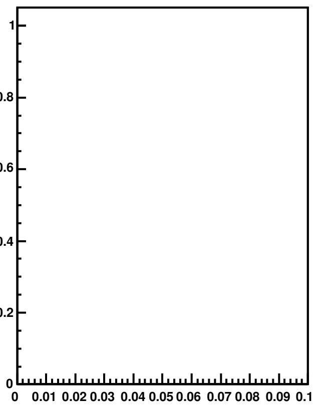

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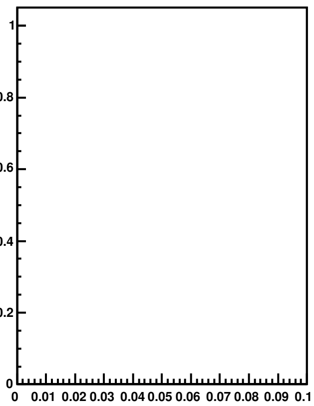

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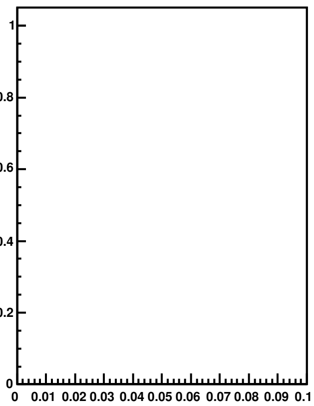

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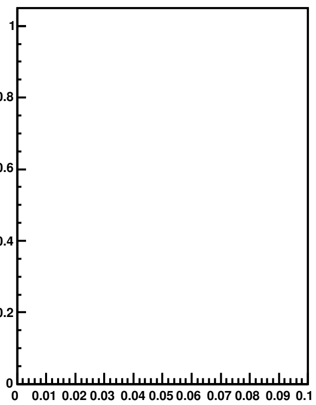

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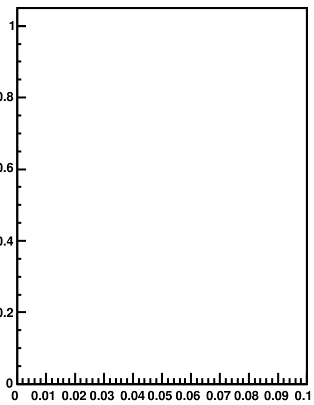

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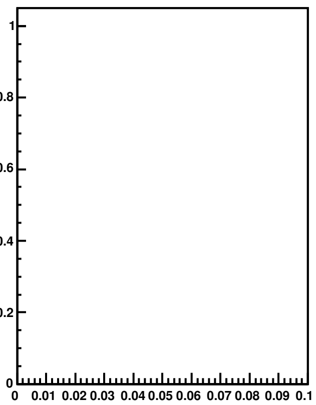

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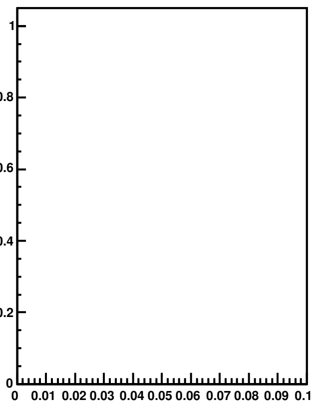

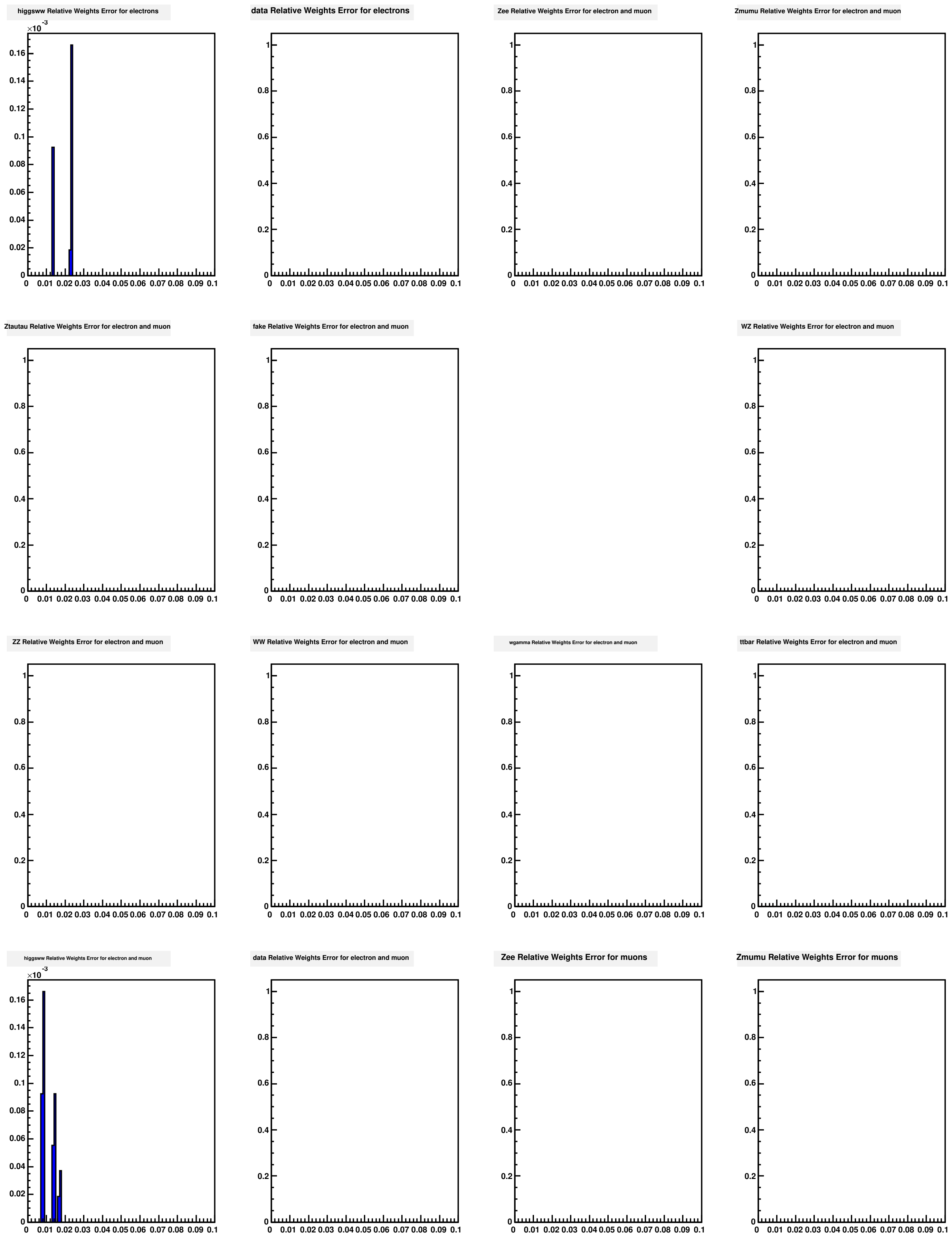
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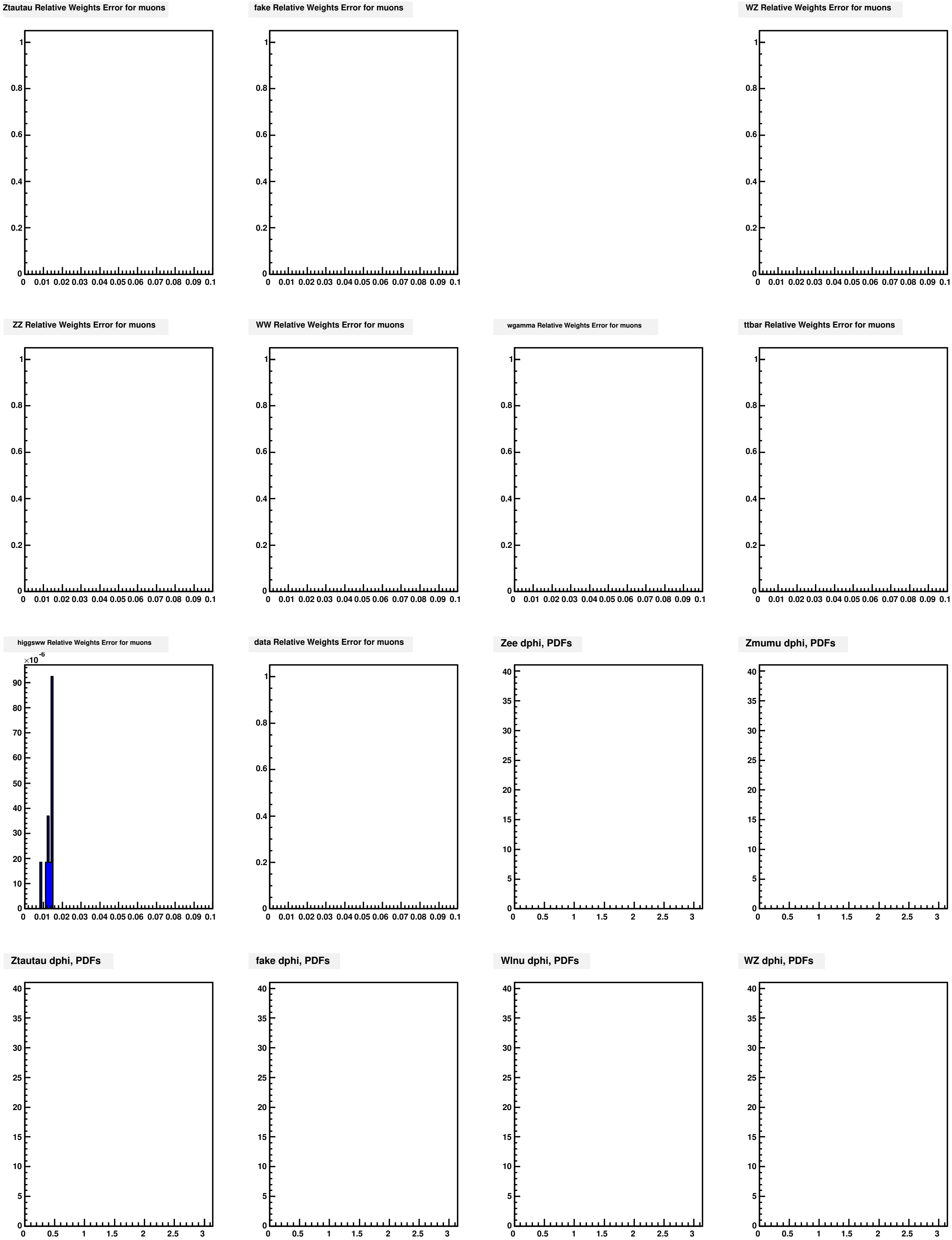
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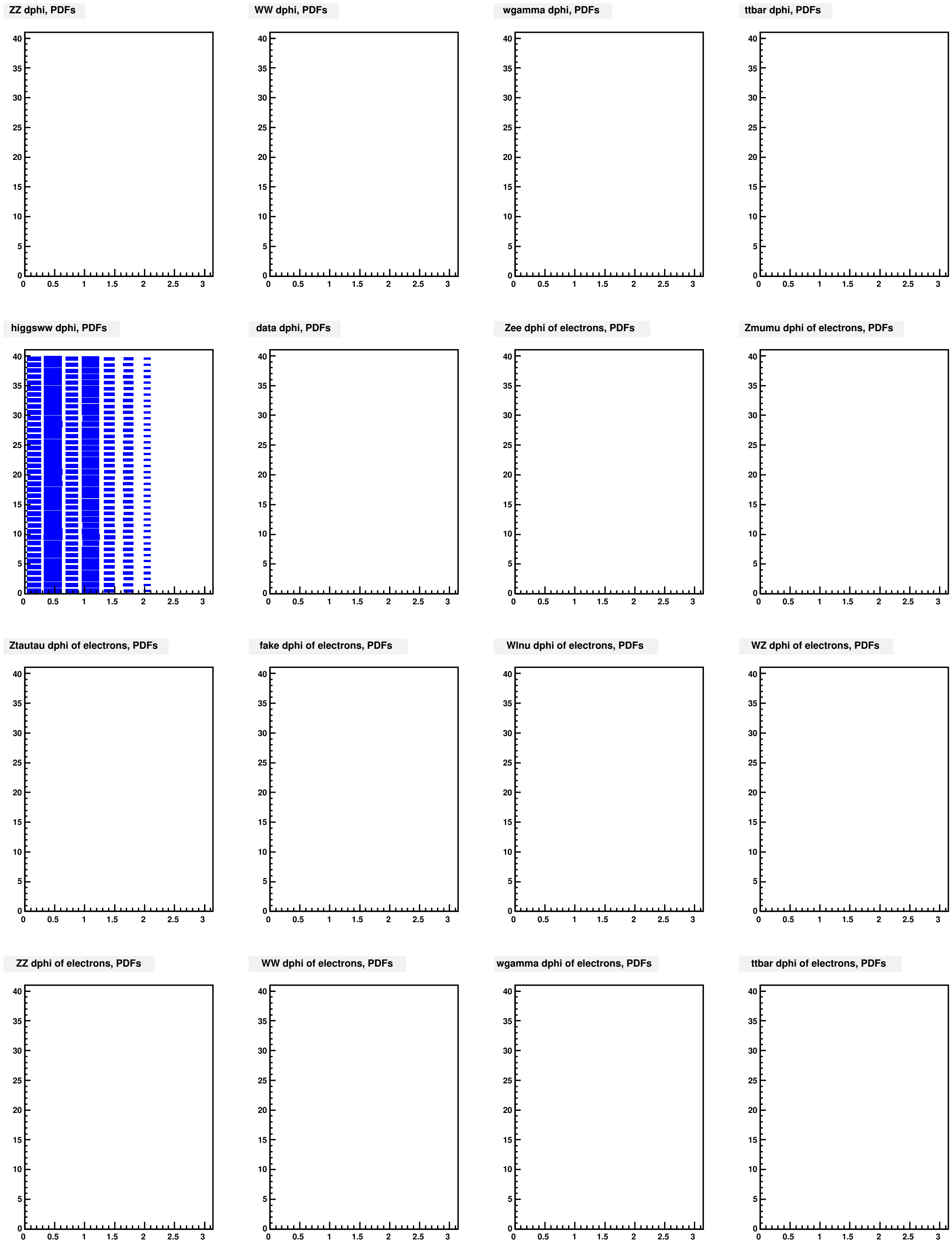

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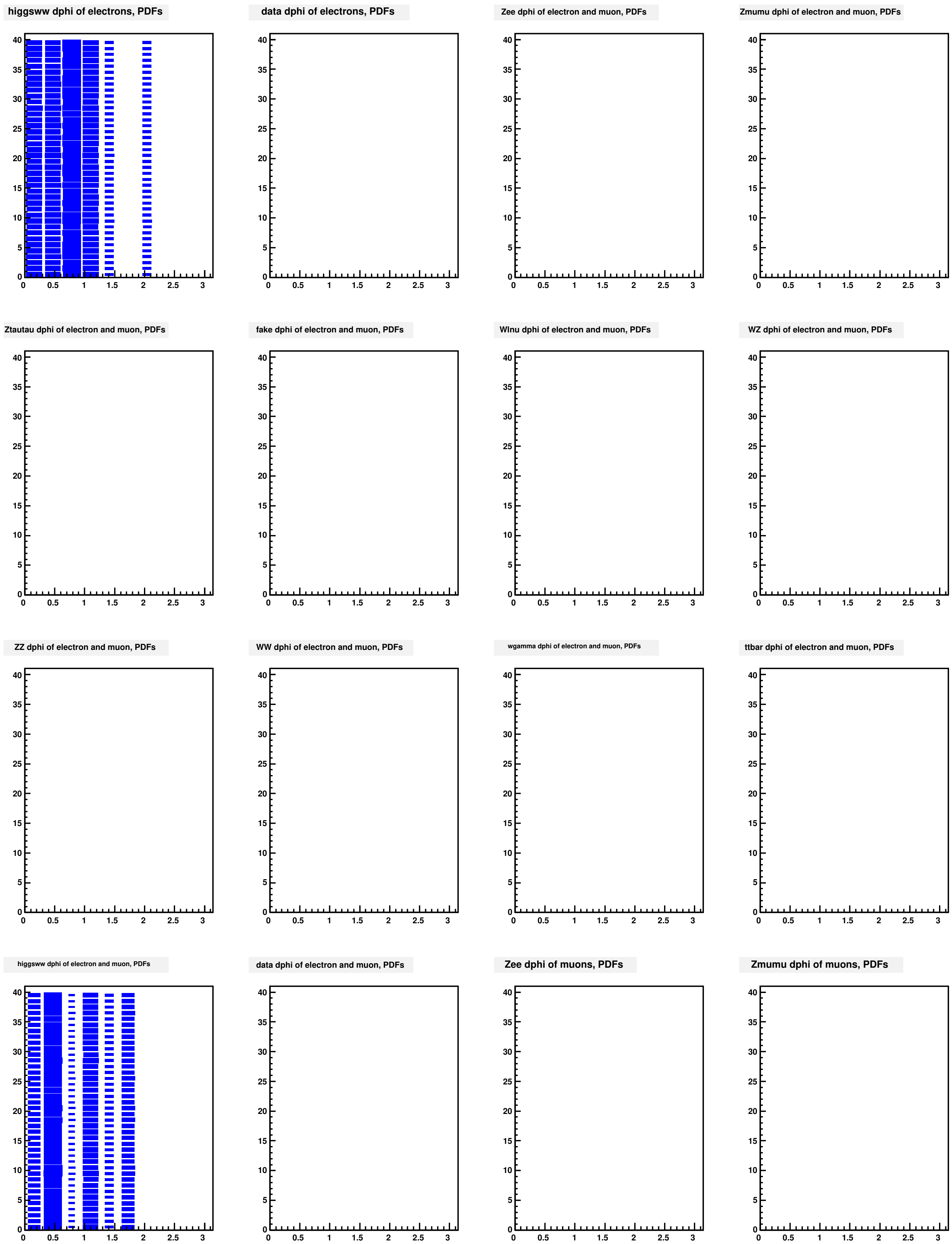
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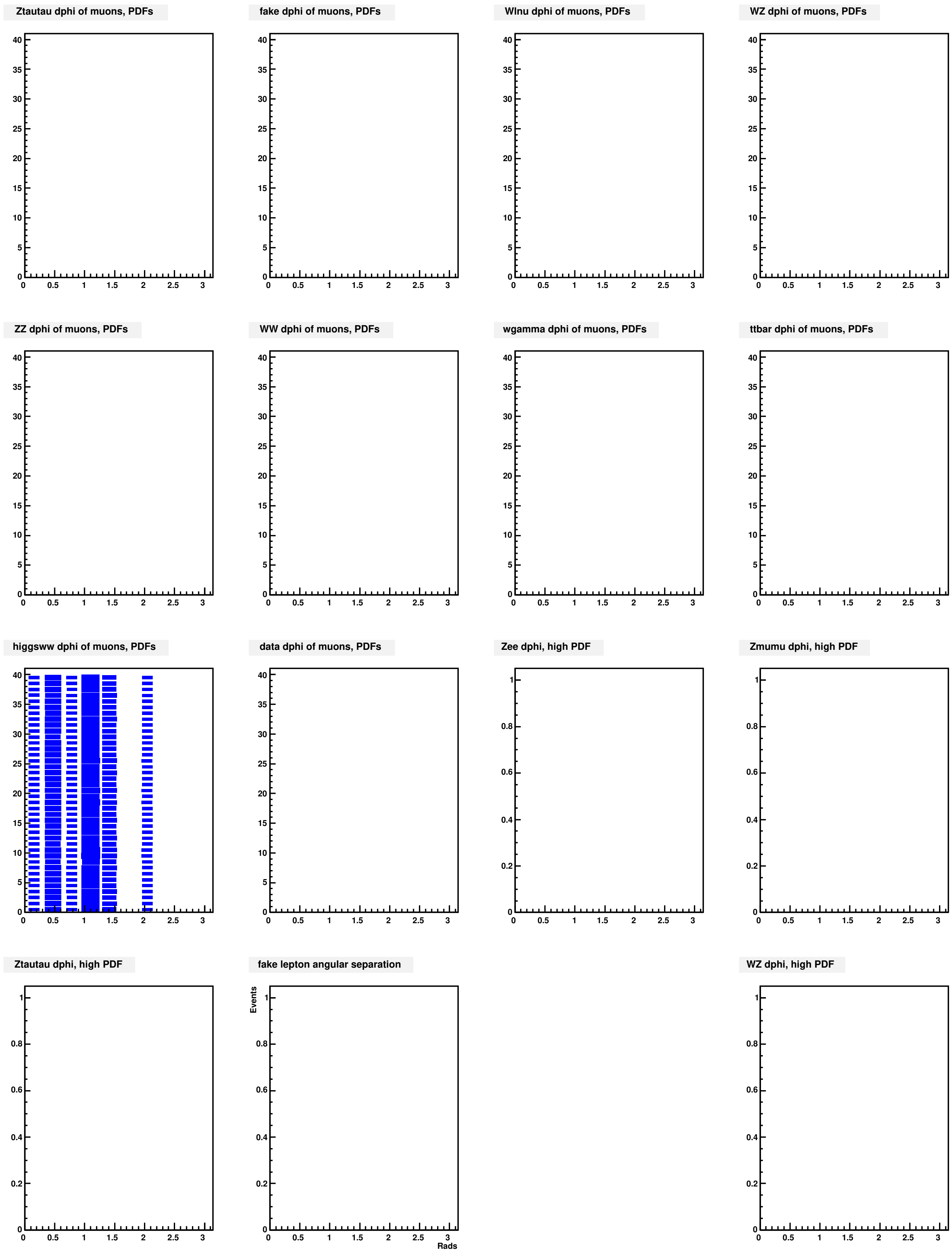

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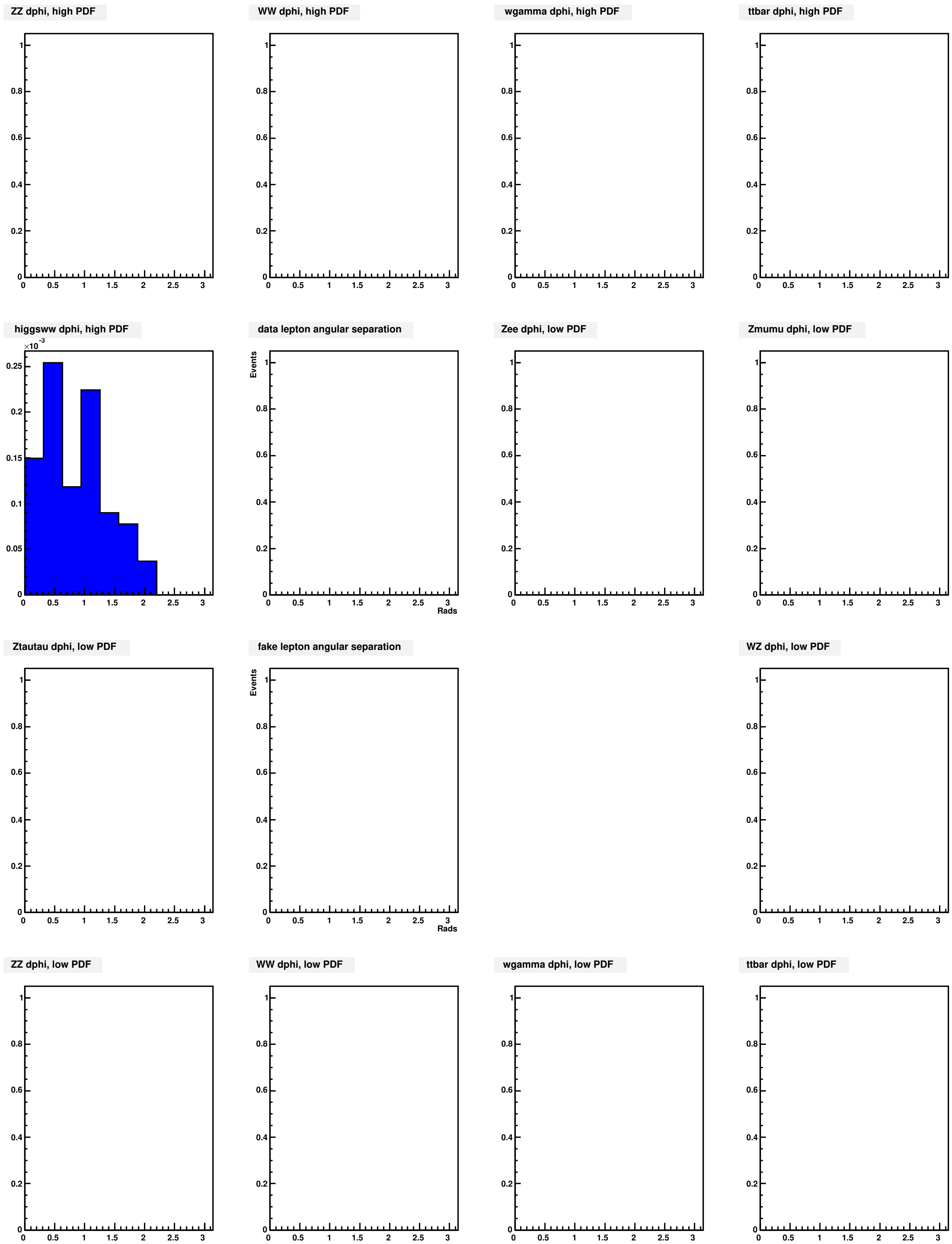
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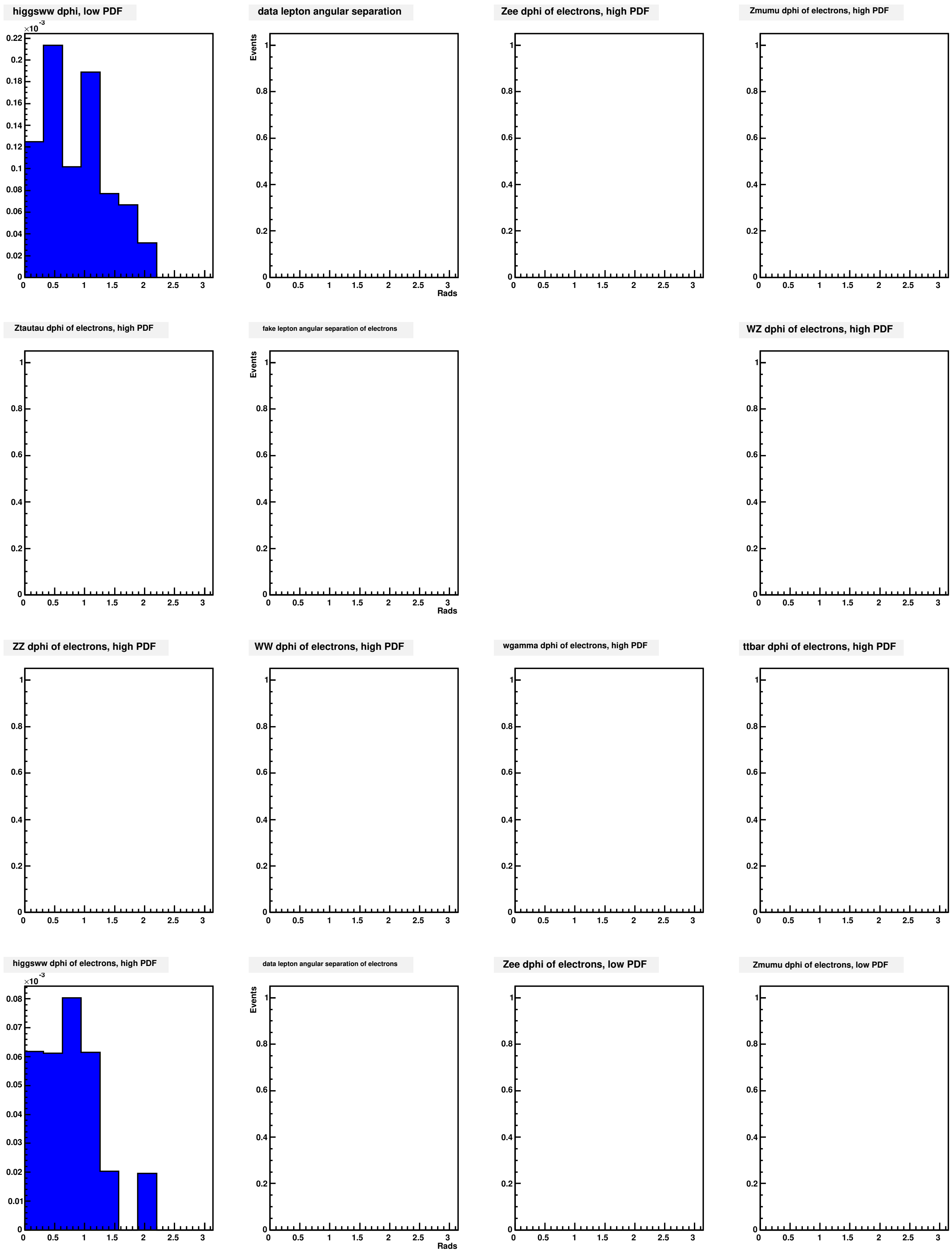
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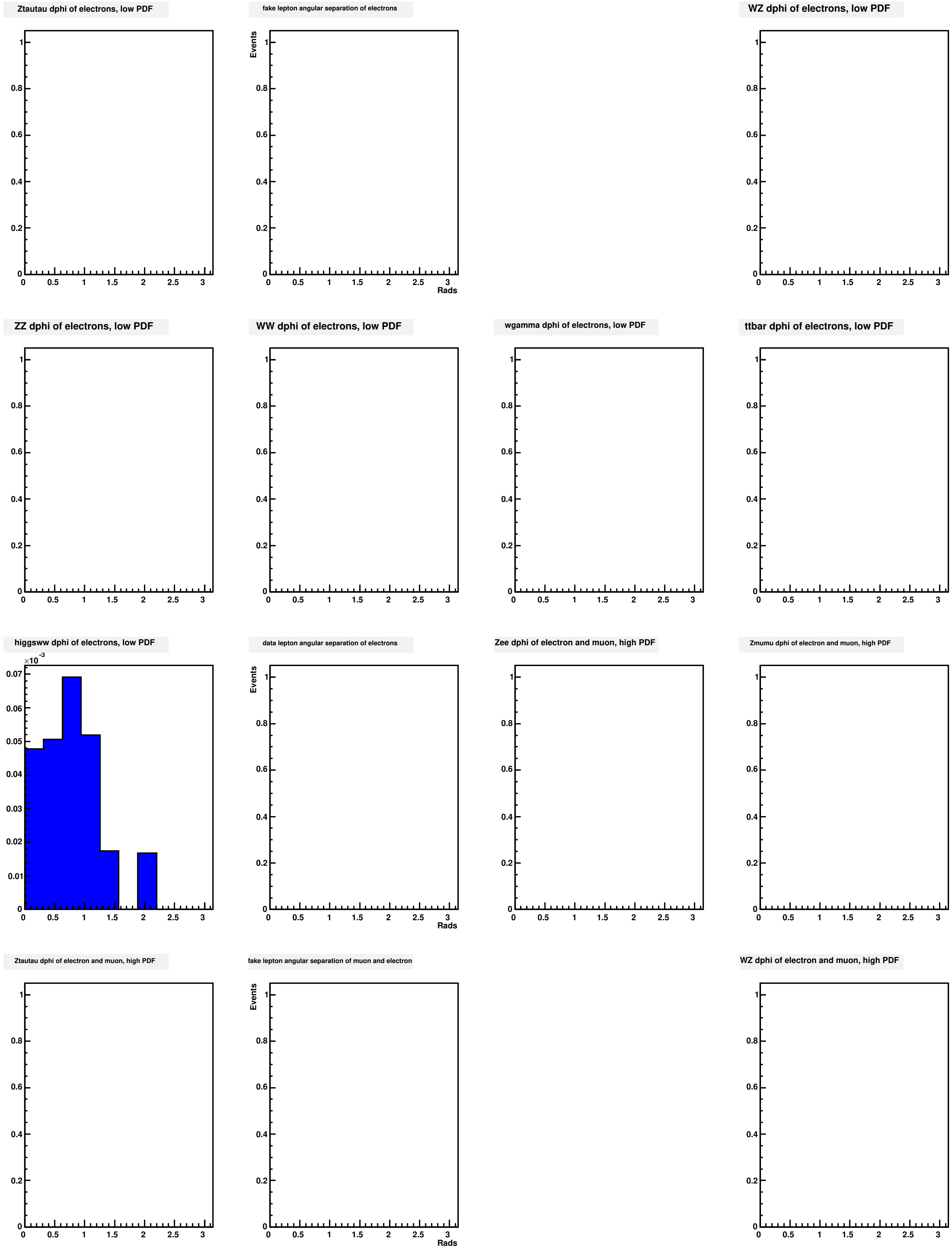
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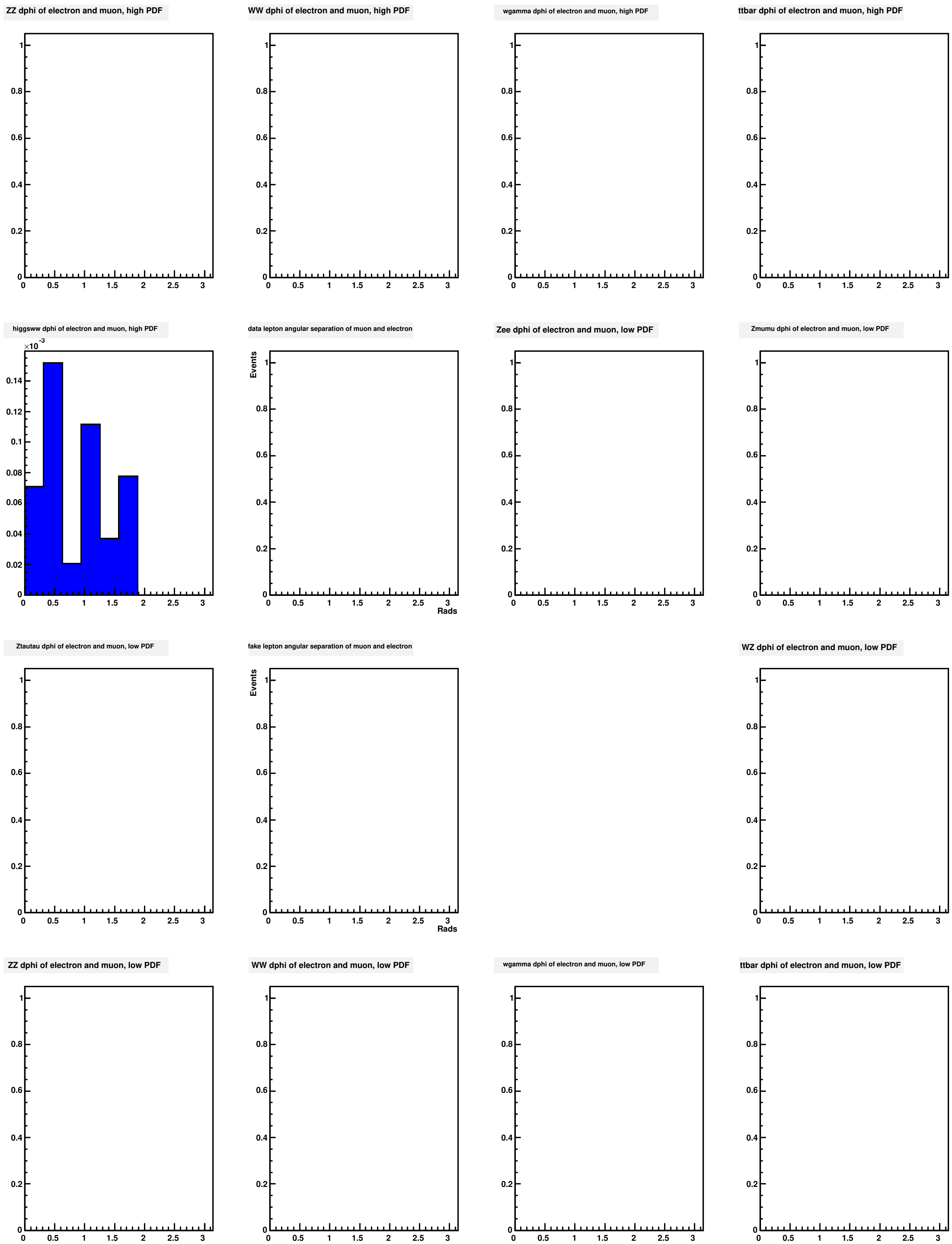
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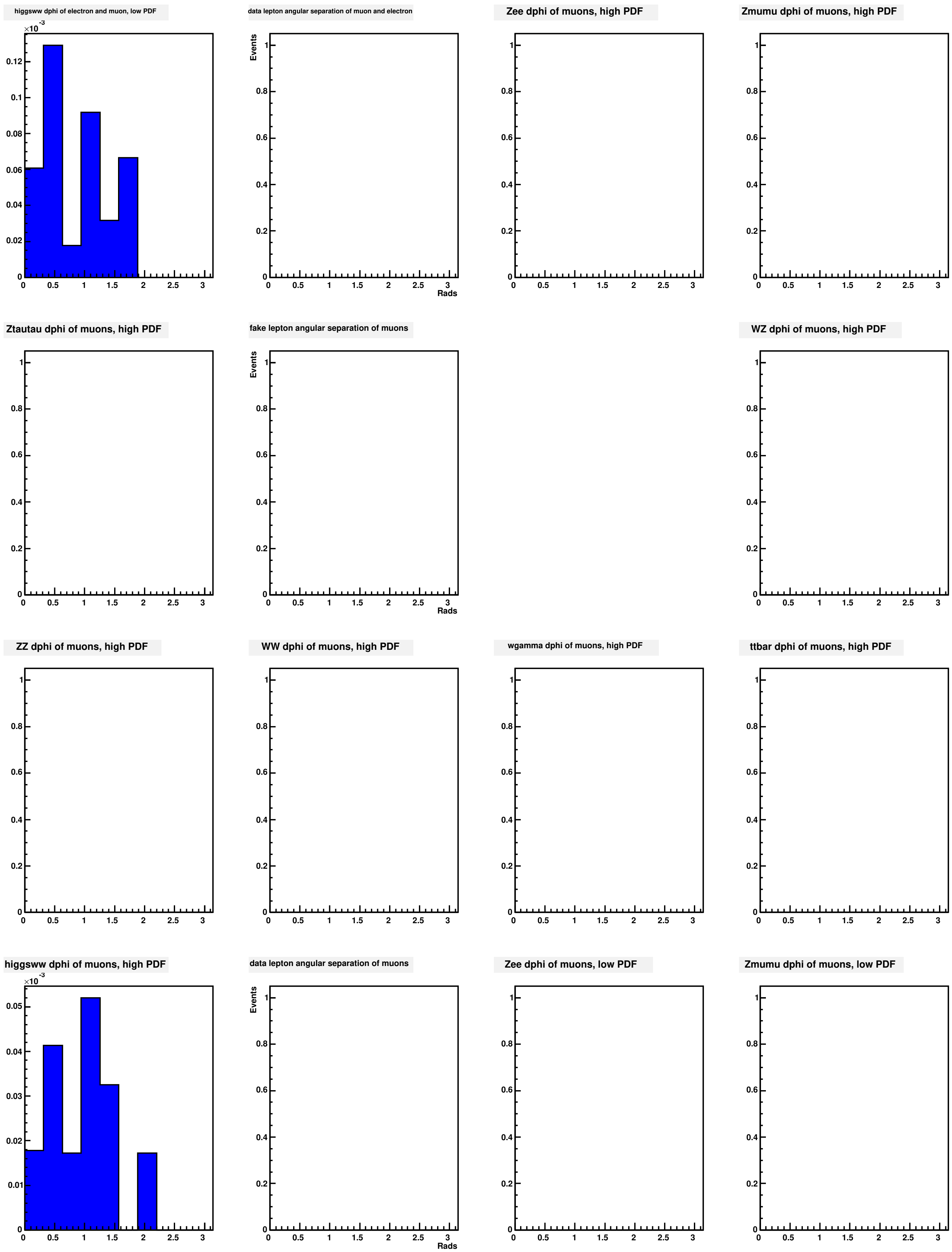
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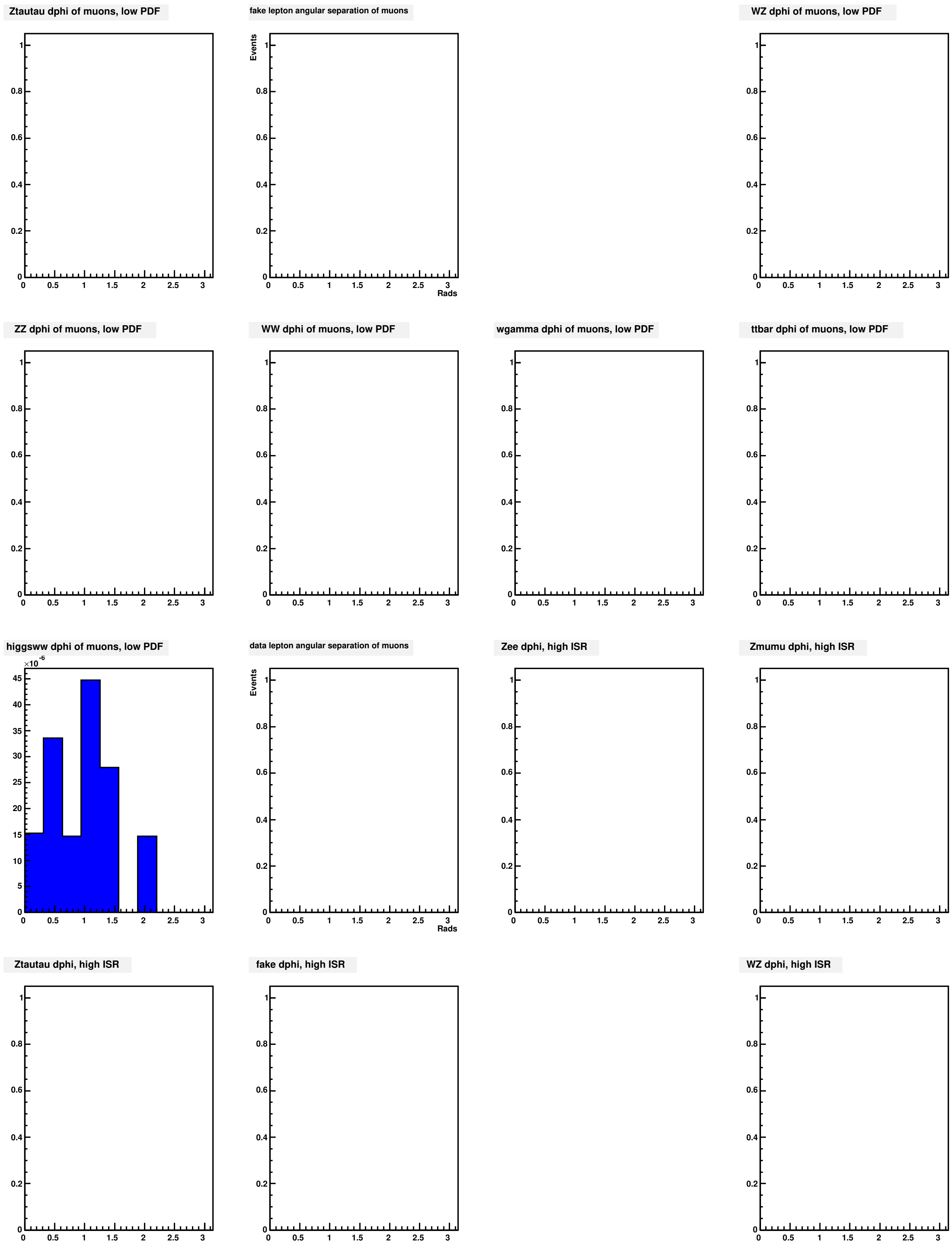

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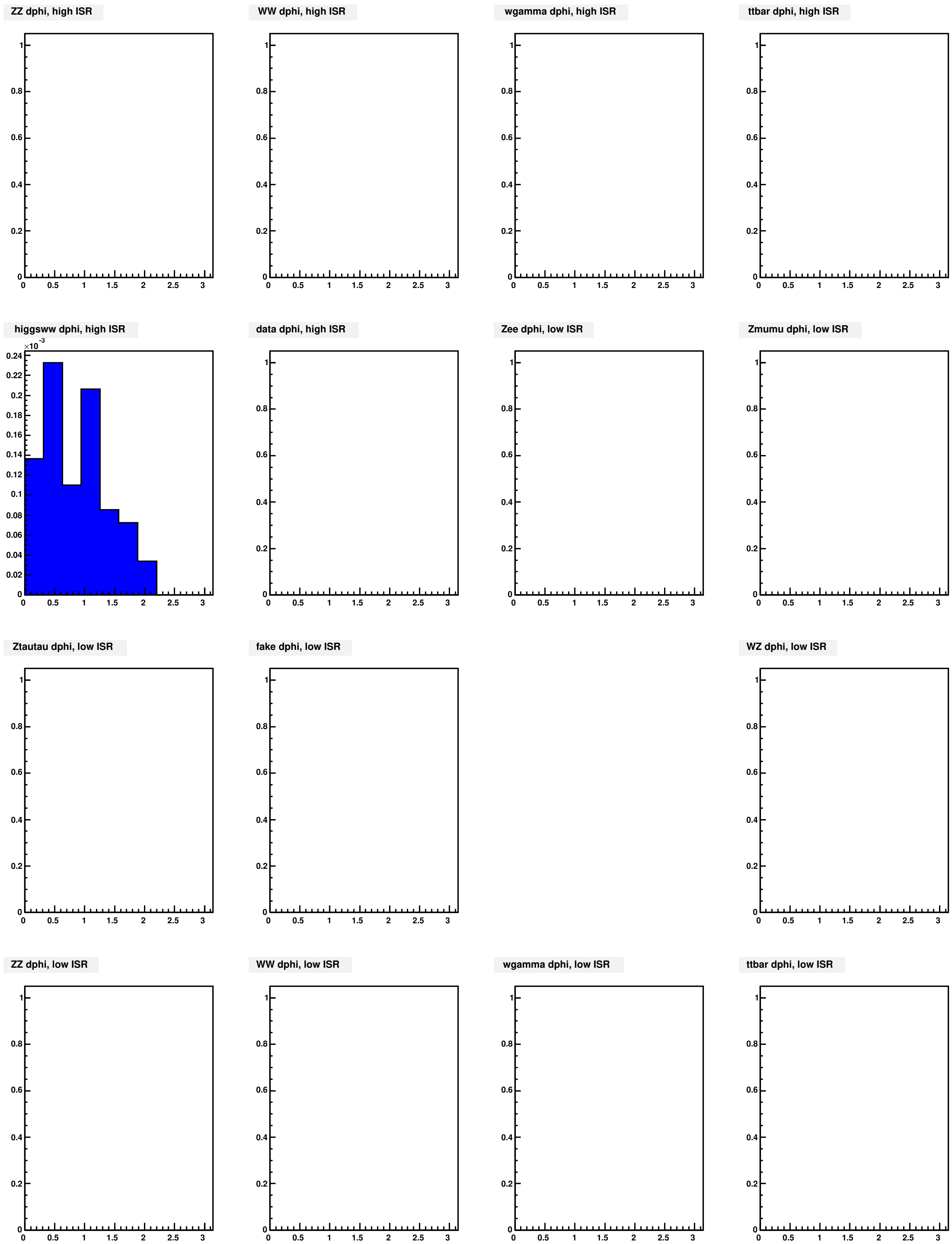
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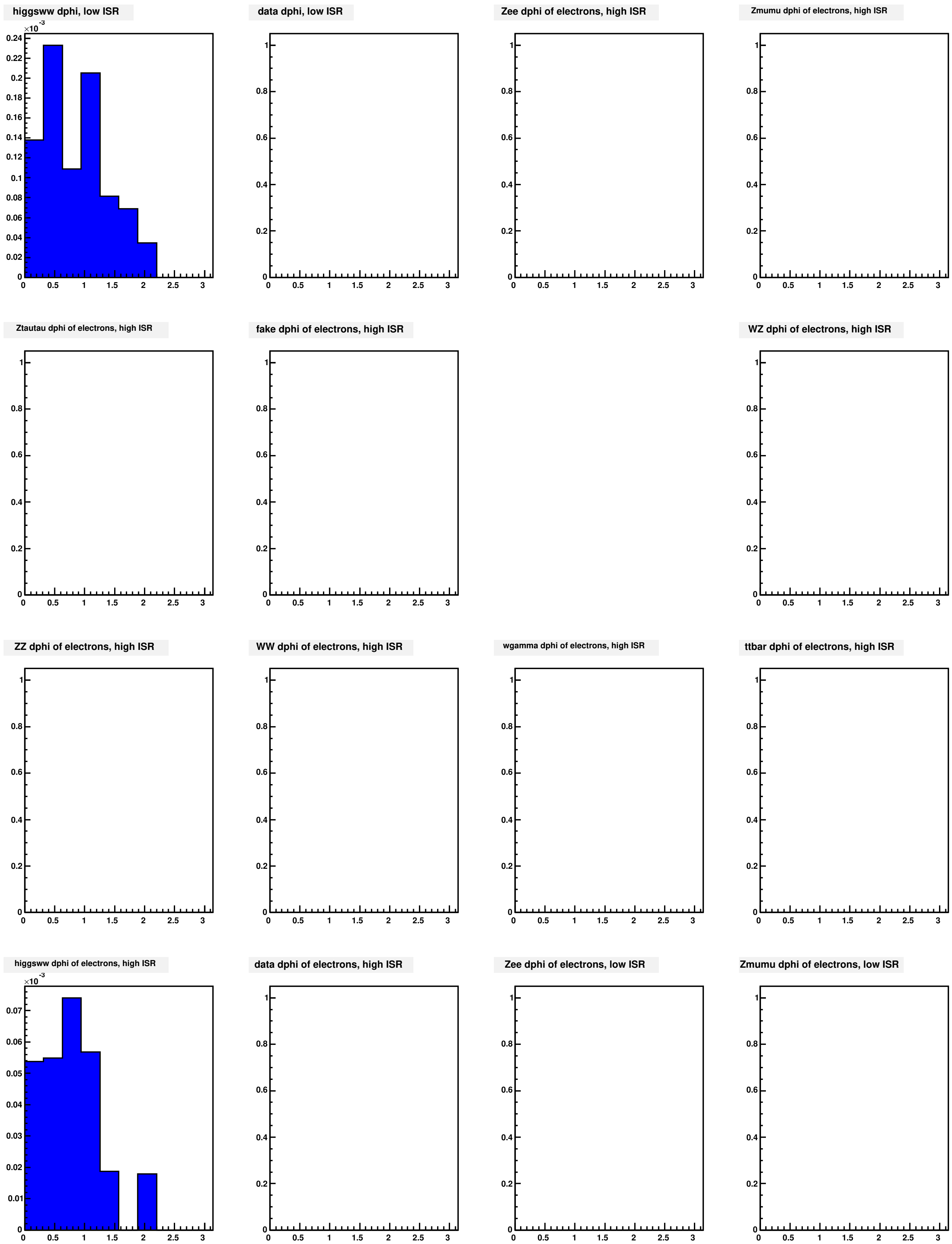
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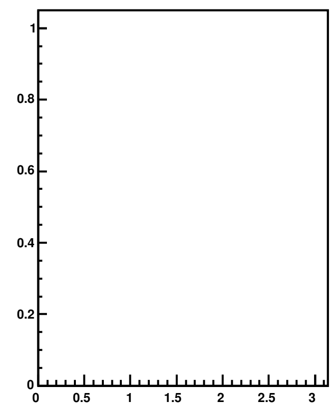


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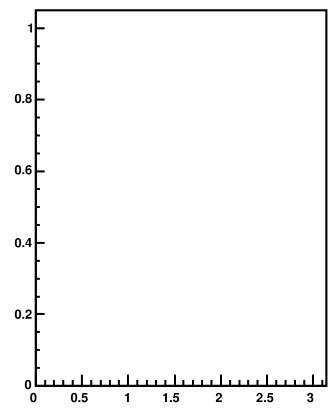


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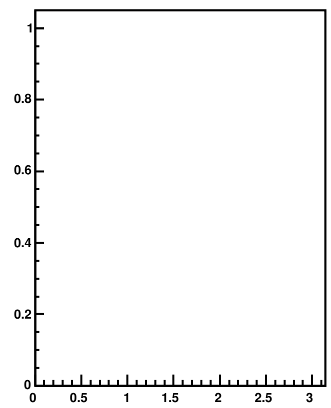


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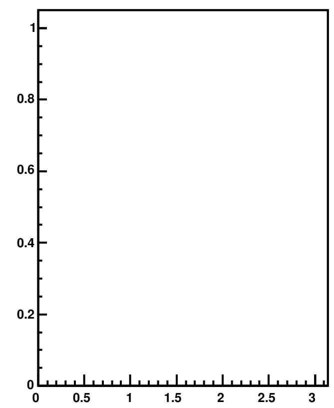


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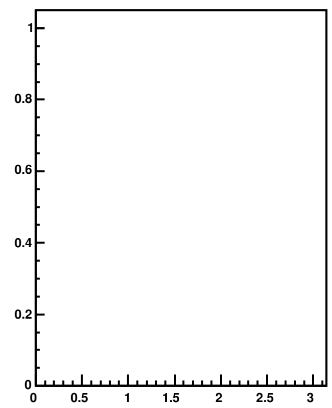


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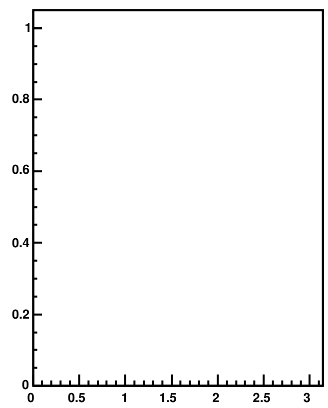


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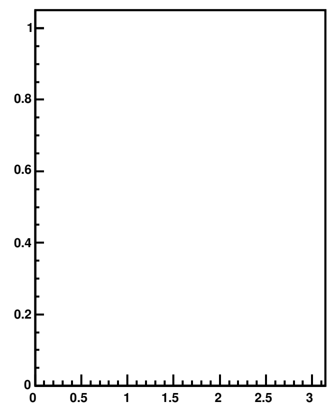


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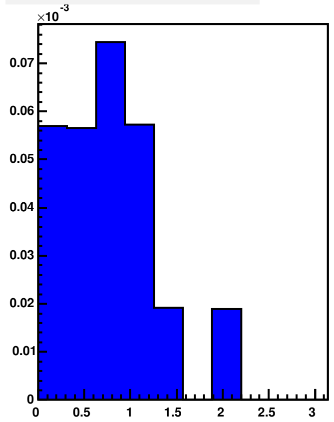


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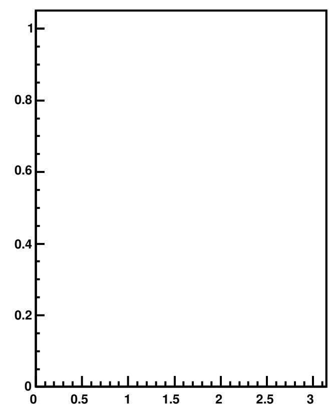


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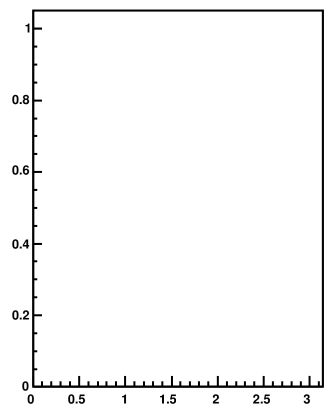


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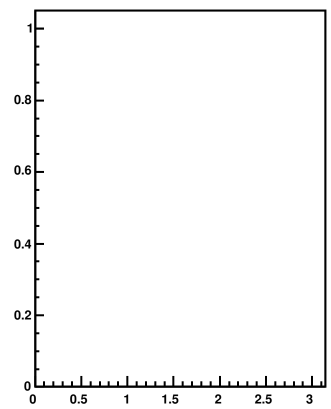


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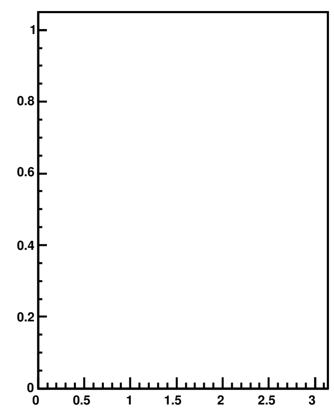


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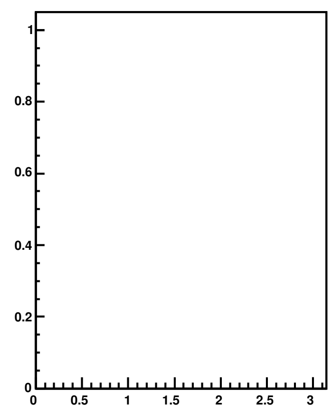


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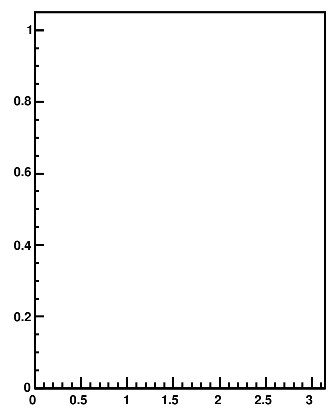

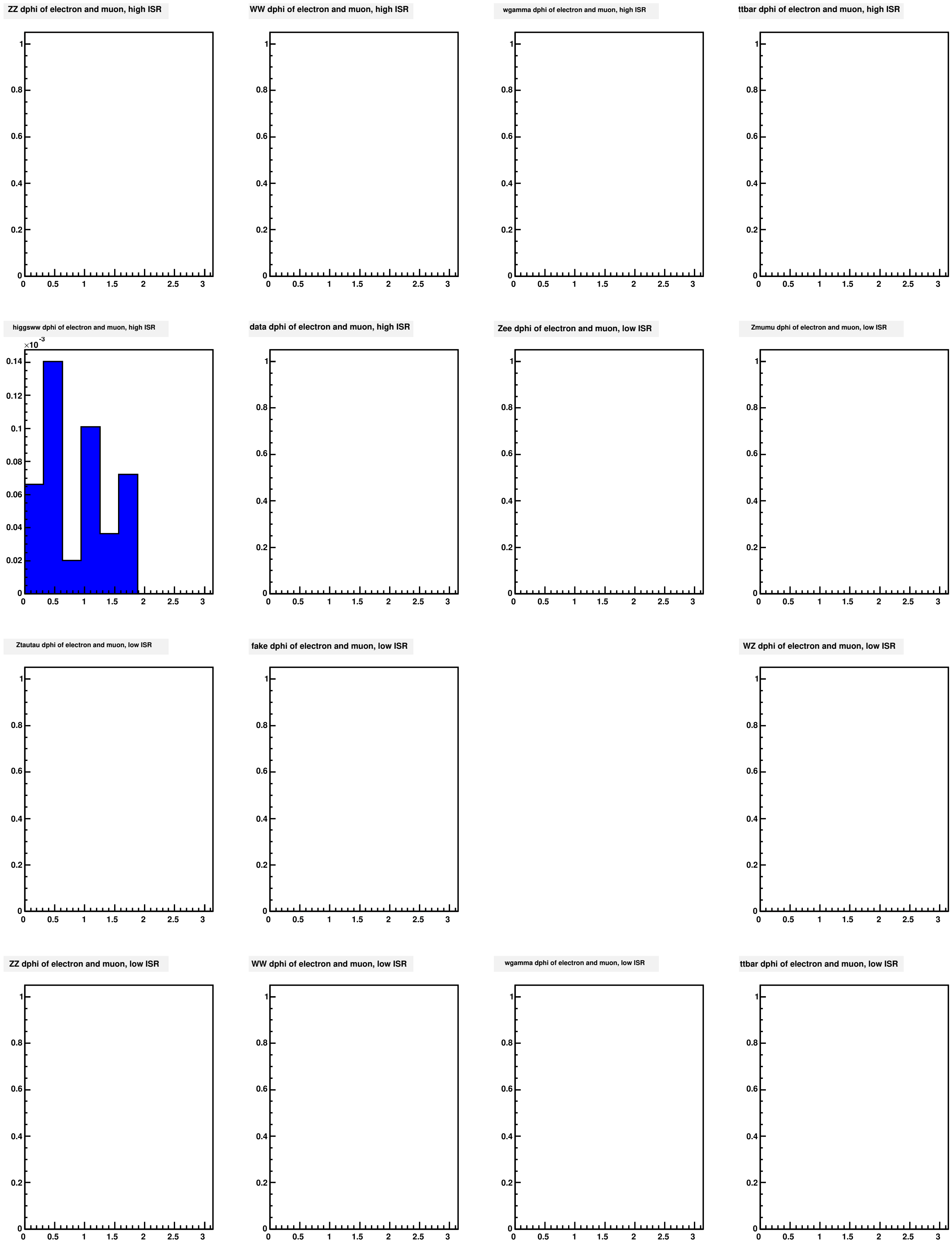
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WW dphi of electron and muon, high ISR
wgamma dphi of electron and muon, high ISR
ttbar dphi of electron and muon, high ISR
higgsww dphi of electron and muon, high ISR
data dphi of electron and muon, high ISR
Zee dphi of electron and muon, low ISR
Zmumu dphi of electron and muon, low ISR
Ztautau dphi of electron and muon, low ISR
fake dphi of electron and muon, low ISR
WZ dphi of electron and muon, low ISR
ZZ dphi of electron and muon, low ISR
WW dphi of electron and muon, low ISR
wgamma dphi of electron and muon, low ISR
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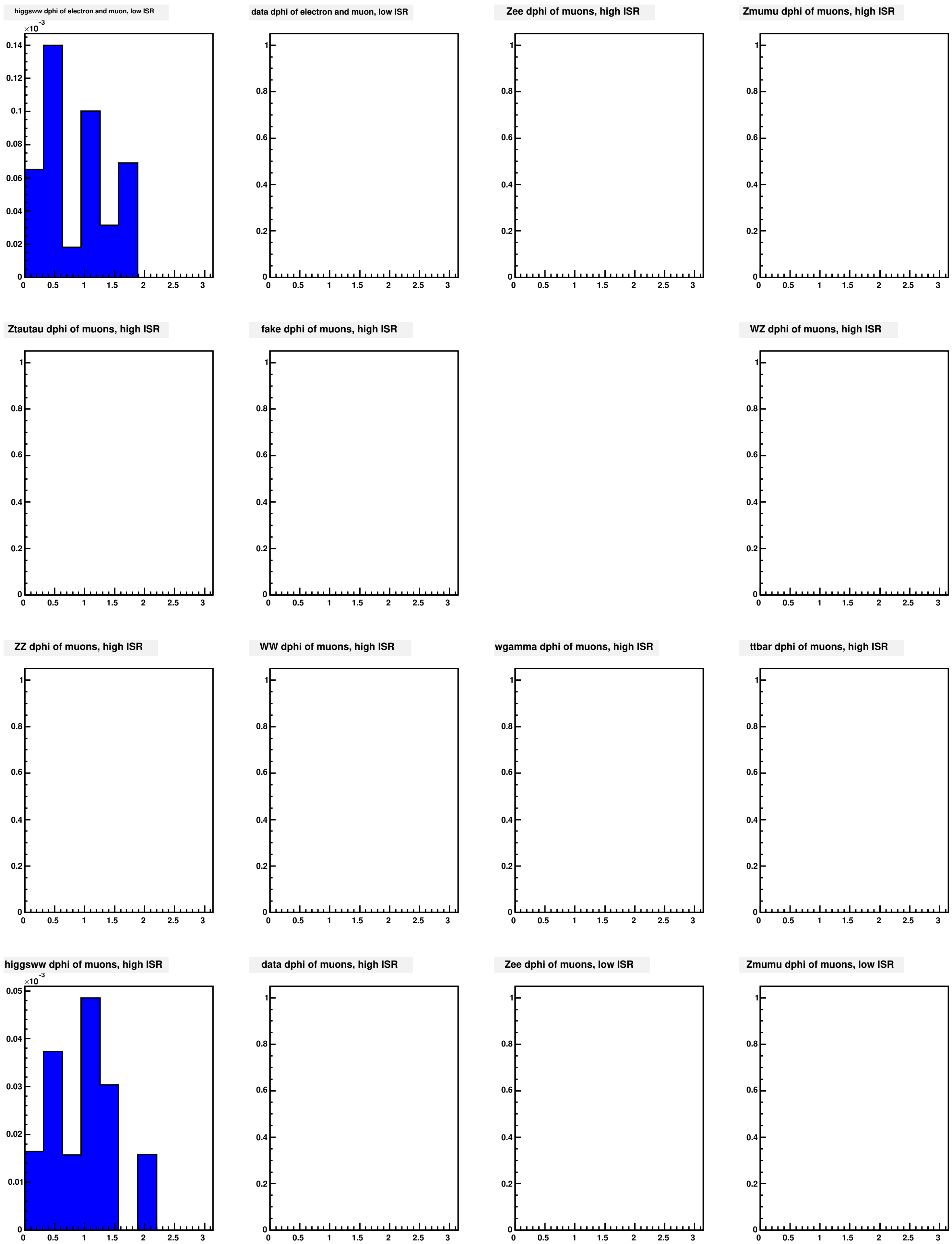
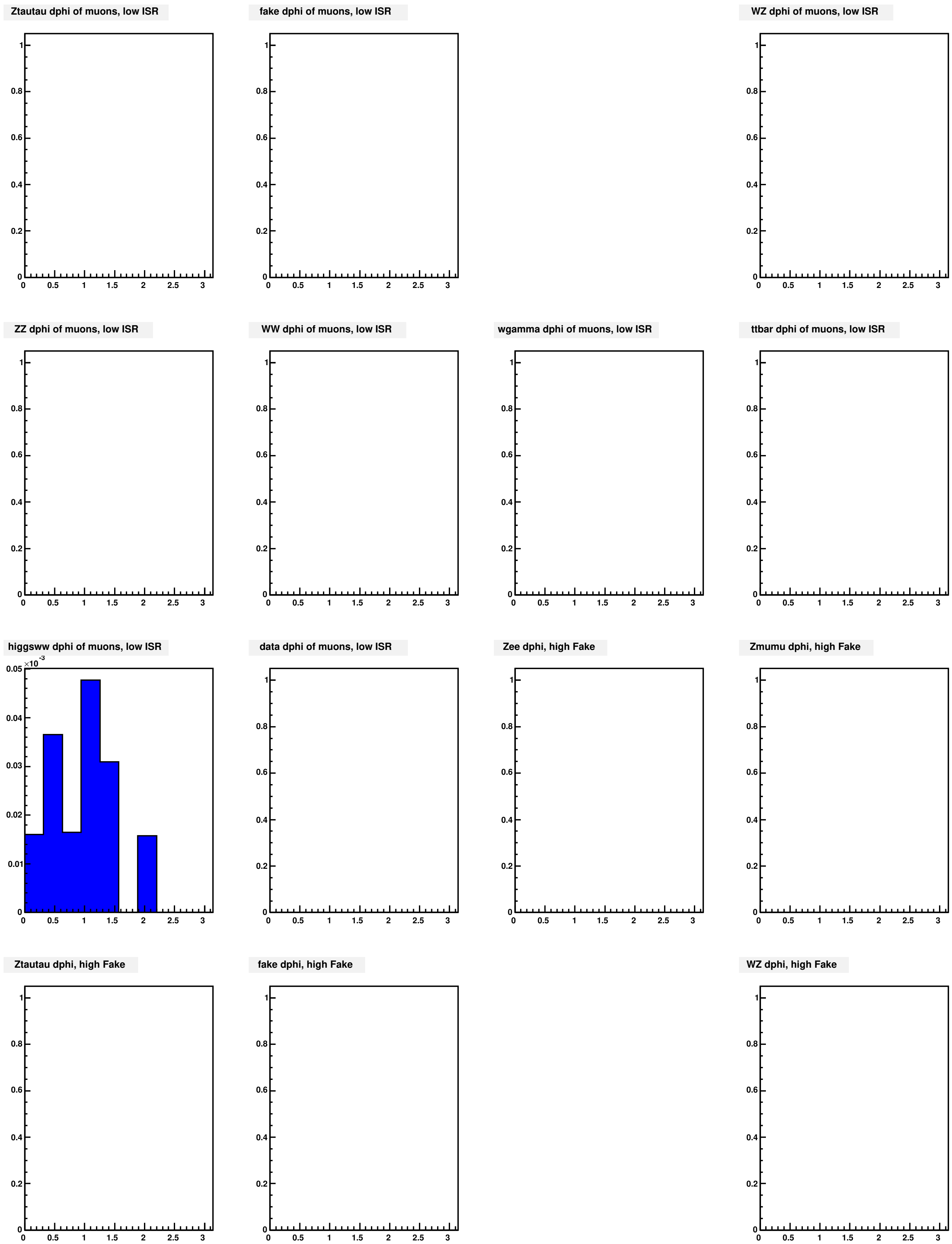
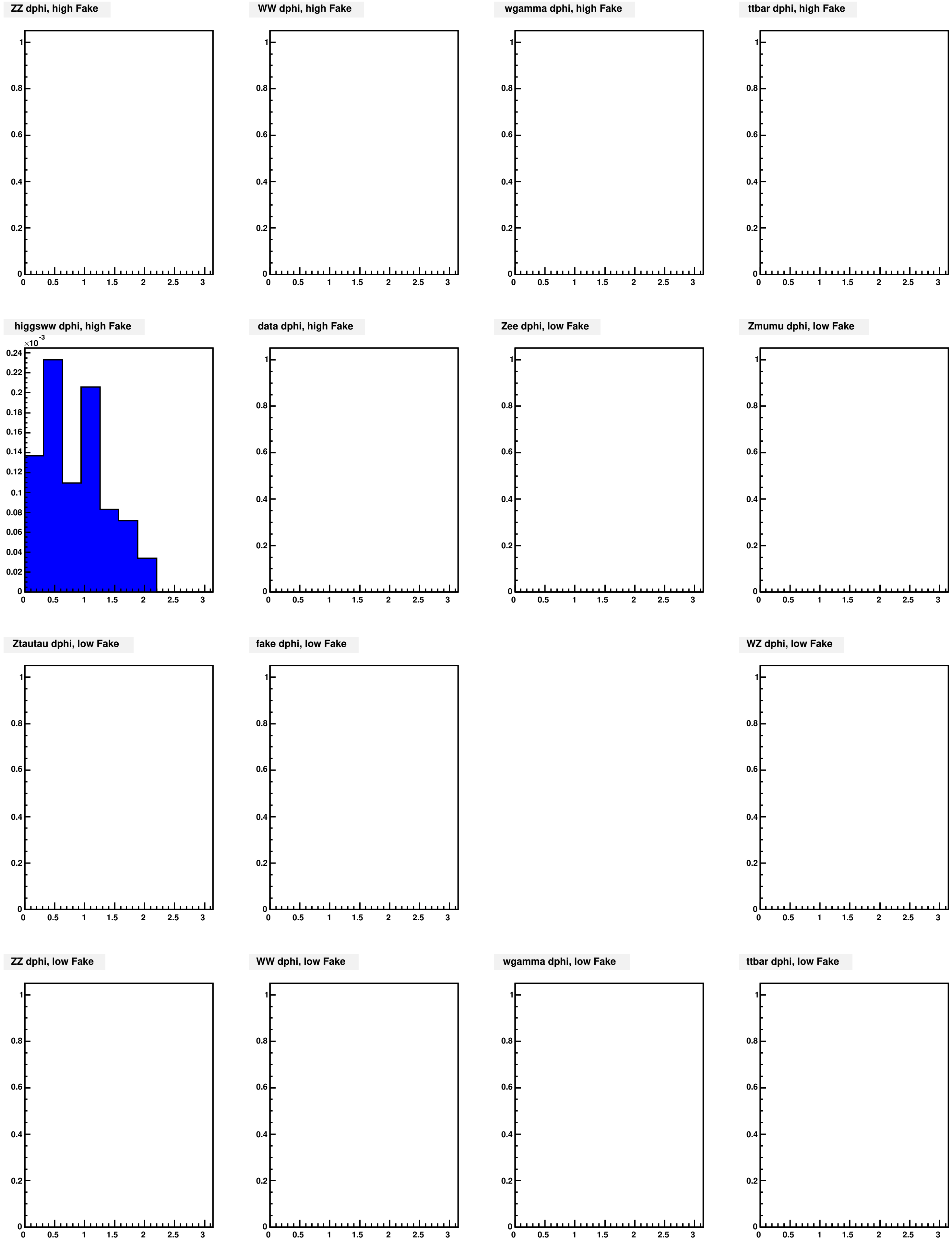

higgsww dphi of electron and muon, low ISR
data dphi of electron and muon, low ISR
Zee dphi of muons, high ISR
Zmumu dphi of muons, high ISR
Ztautau dphi of muons, high ISR
fake dphi of muons, high ISR
WZ dphi of muons, high ISR
ZZ dphi of muons, high ISR
WW dphi of muons, high ISR
wgamma dphi of muons, high ISR
ttbar dphi of muons, high ISR
higgsww dphi of muons, high ISR
data dphi of muons, high ISR
Zee dphi of muons, low ISR
Zmumu dphi of muons, low ISR


Ztautau dphi of muons, low ISR
fake dphi of muons, low ISR
WZ dphi of muons, low ISR
ZZ dphi of muons, low ISR
WW dphi of muons, low ISR
wgamma dphi of muons, low ISR
ttbar dphi of muons, low ISR
higgsww dphi of muons, low ISR
data dphi of muons, low ISR
Zee dphi, high Fake
Zmumu dphi, high Fake
Ztautau dphi, high Fake
fake dphi, high Fake
WZ dphi, high Fake


ZZ dphi, high Fake
WW dphi, high Fake
wgamma dphi, high Fake
ttbar dphi, high Fake
higgsww dphi, high Fake
×10^-3
data dphi, high Fake
Zee dphi, low Fake
Zmumu dphi, low Fake
Ztautau dphi, low Fake
fake dphi, low Fake
WZ dphi, low Fake
ZZ dphi, low Fake
WW dphi, low Fake
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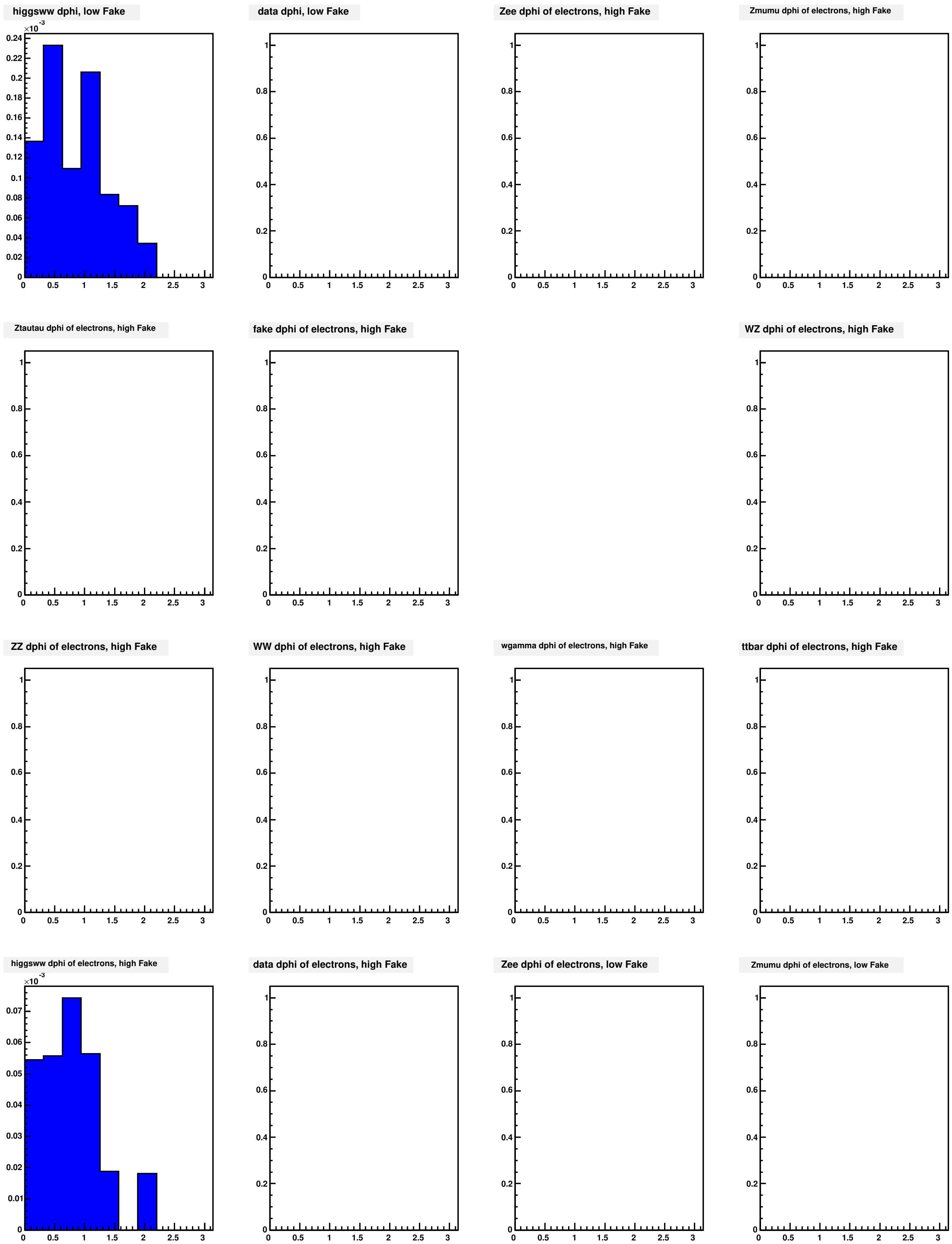
ttbar dphi, low Fake


higgsww dphi, low Fake
data dphi, low Fake
Zee dphi of electrons, high Fake
Zmumu dphi of electrons, high Fake
Ztautau dphi of electrons, high Fake
fake dphi of electrons, high Fake
WZ dphi of electrons, high Fake
ZZ dphi of electrons, high Fake
WW dphi of electrons, high Fake
wgamma dphi of electrons, high Fake
ttbar dphi of electrons, high Fake
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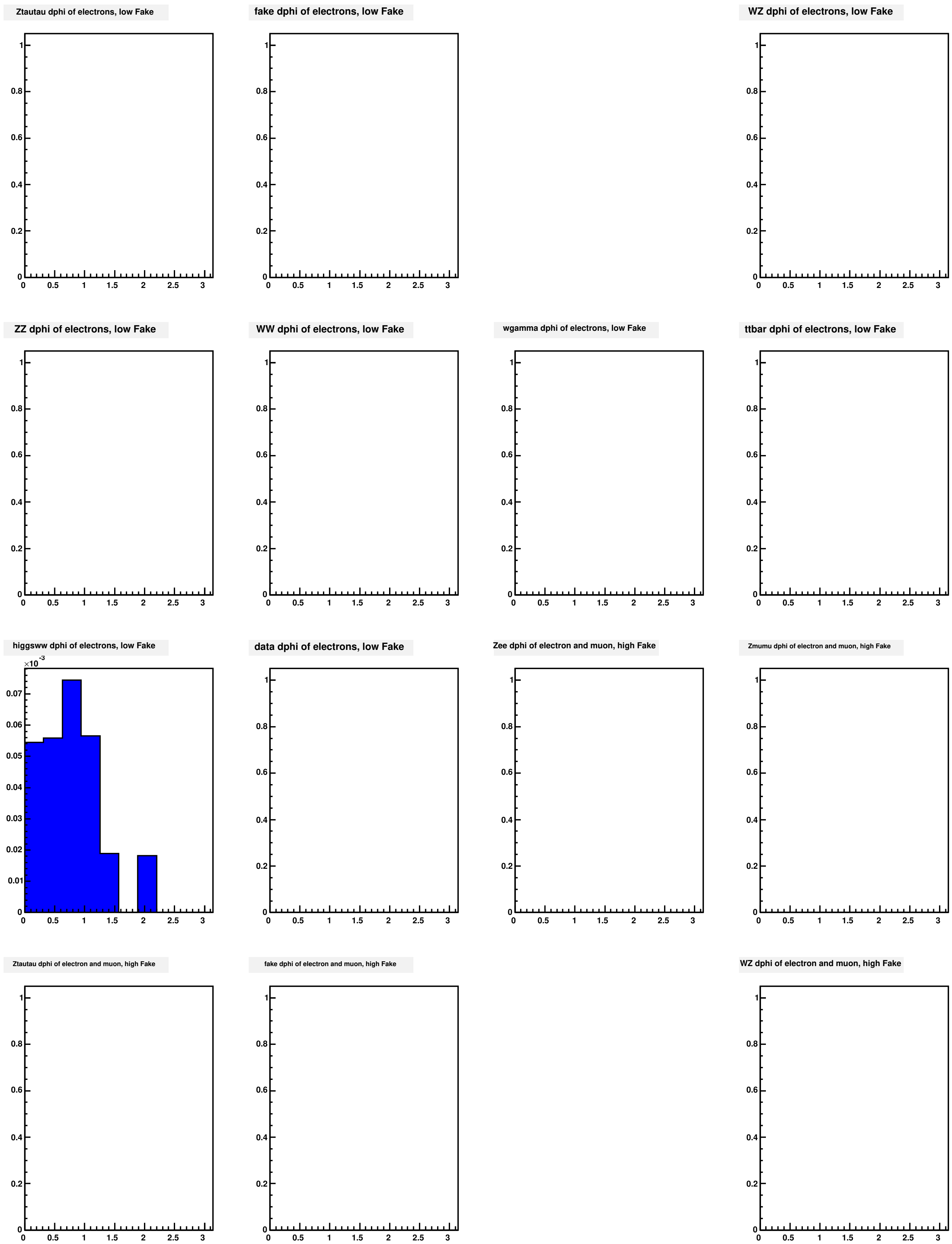
data dphi of electrons, high Fake
Zee dphi of electrons, low Fake
Zmumu dphi of electrons, low Fake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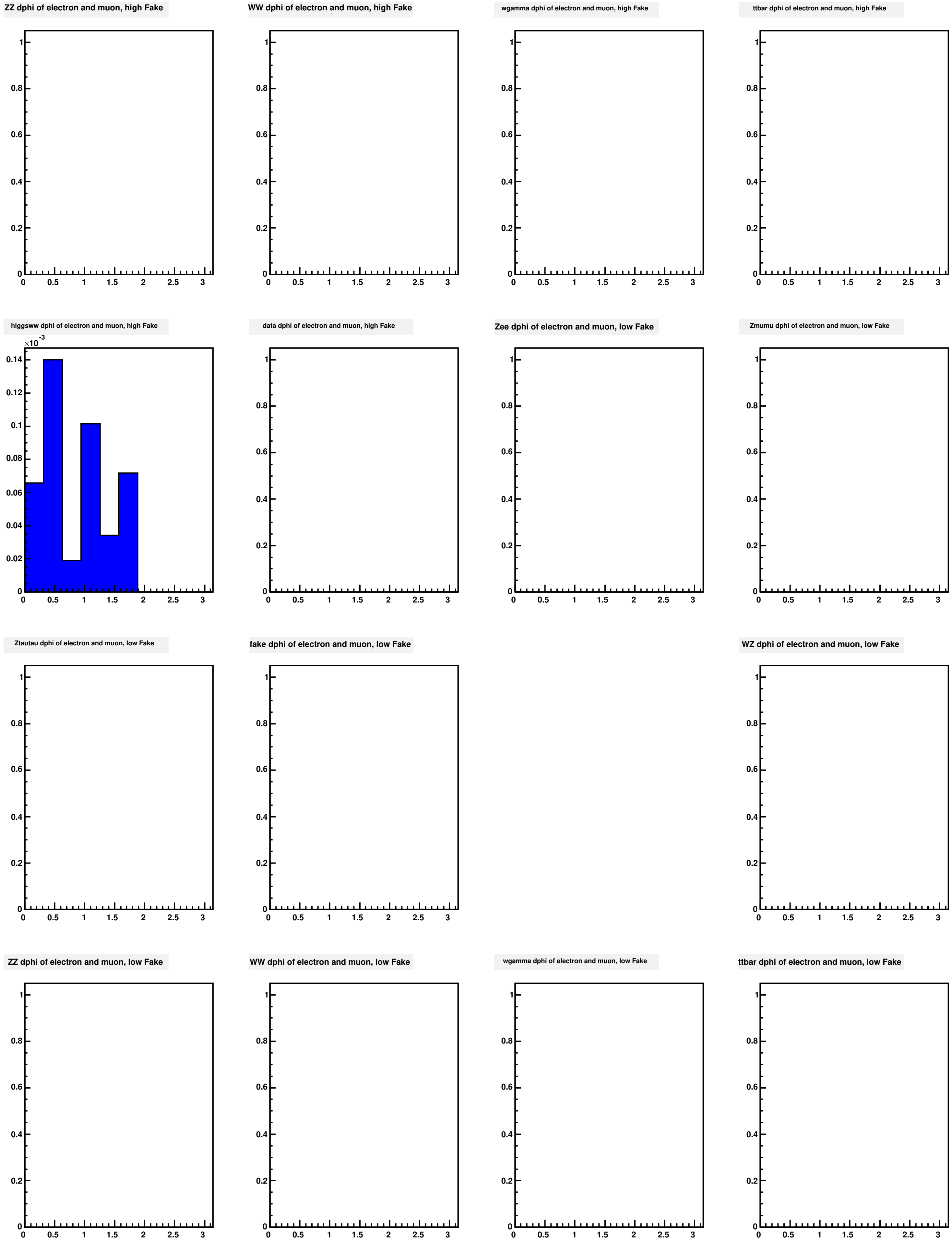
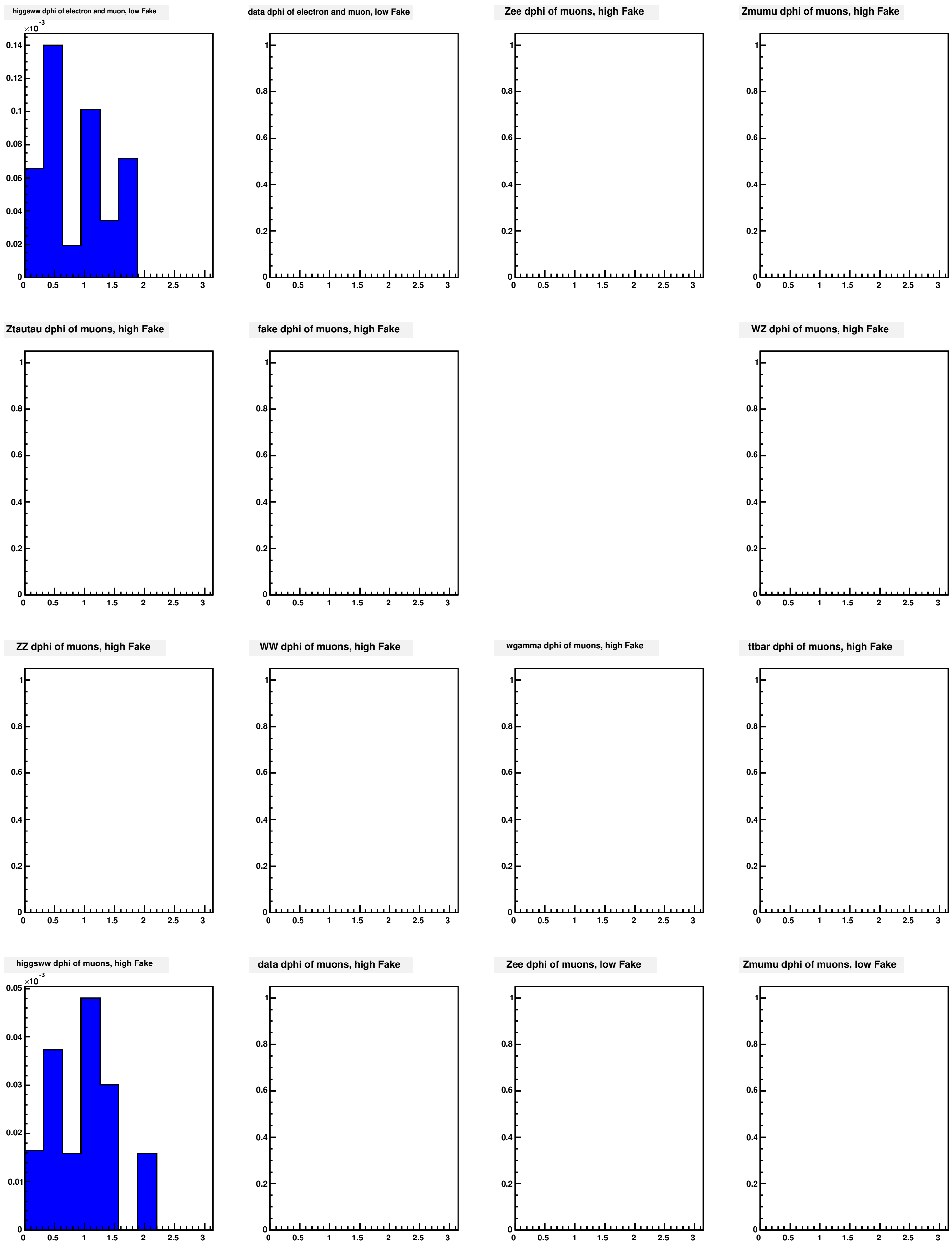
fake dphi of electrons, low Fake
WZ dphi of electrons, low Fake
ZZ dphi of electrons, low Fake
WW dphi of electrons, low Fake
wgamma dphi of electrons, low Fake
ttbar dphi of electrons, low Fake
higgsww dphi of electrons, low Fake
×10^-3
data dphi of electrons, low Fake
Zee dphi of electron and muon, high Fake
Zmumu dphi of electron and muon, high Fake
Ztautau dphi of electron and muon, high Fake
fake dphi of electron and muon, high Fake
WZ dphi of electron and muon, high Fake



ZZ dphi of electron and muon, high Fake
WW dphi of electron and muon, high Fake
wgamma dphi of electron and muon, high Fake
ttbar dphi of electron and muon, high Fake
higgsww dphi of electron and muon, high Fake
×10⁻³
data dphi of electron and muon, high Fake
Zee dphi of electron and muon, low Fake
Zmumu dphi of electron and muon, low Fake
Ztautau dphi of electron and muon, low Fake
fake dphi of electron and muon, low Fake
WZ dphi of electron and muon, low Fake
ZZ dphi of electron and muon, low Fake
WW dphi of electron and muon, low Fake
wgamma dphi of electron and muon, low Fake
ttbar dphi of electron and muon, low Fake


higgsww dphi of electron and muon, low Fake
data dphi of electron and muon, low Fake
Zee dphi of muons, high Fake
Zmumu dphi of muons, high Fake
Ztautau dphi of muons, high Fake
fake dphi of muons, high Fake
WZ dphi of muons, high Fake
ZZ dphi of muons, high Fake
WW dphi of muons, high Fake
wgamma dphi of muons, high Fake
ttbar dphi of muons, high Fake
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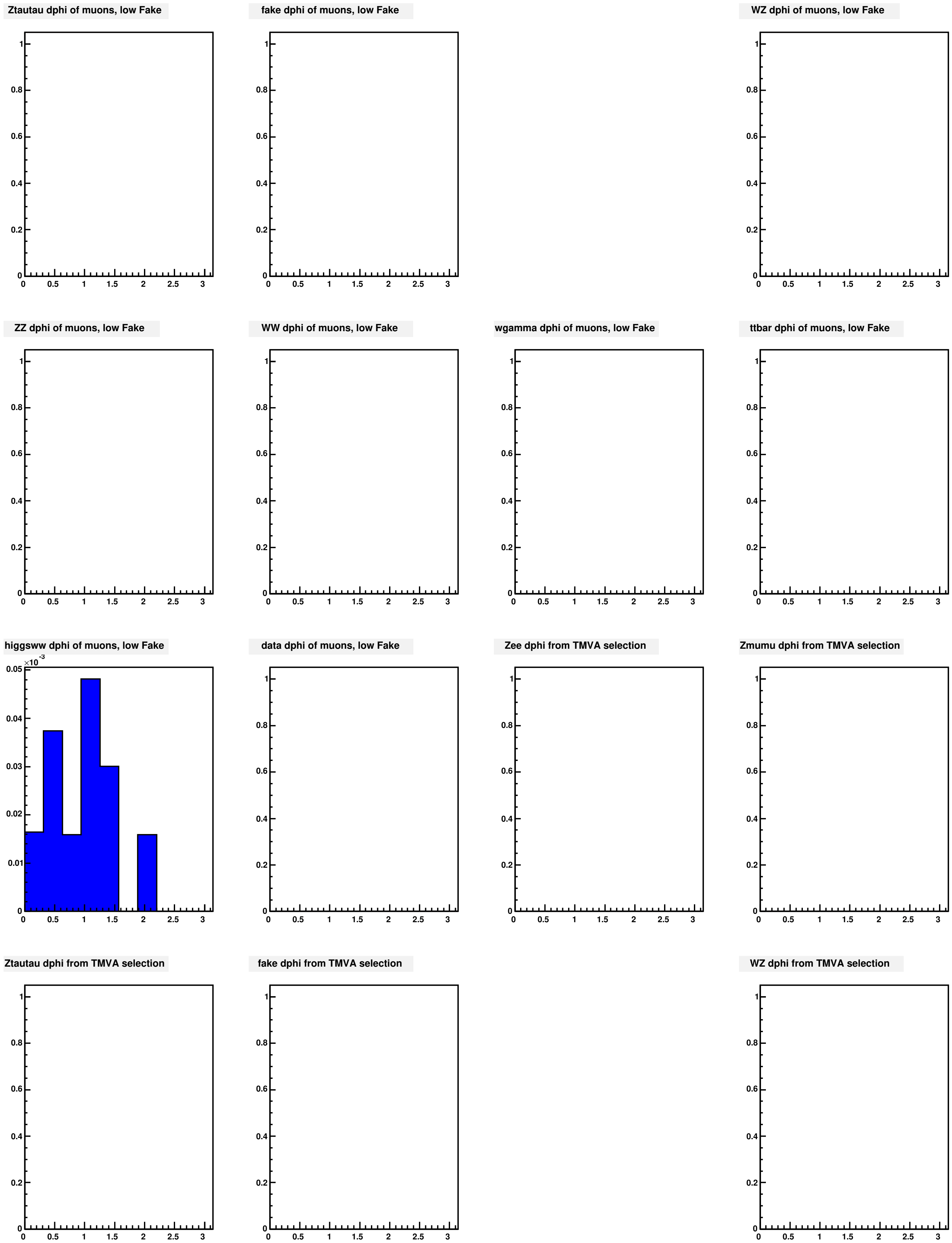
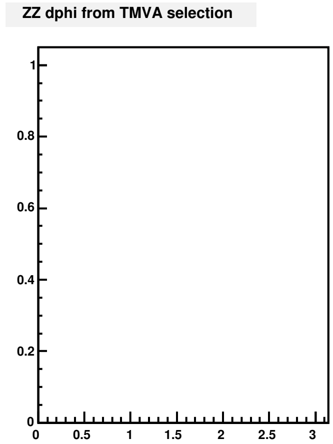
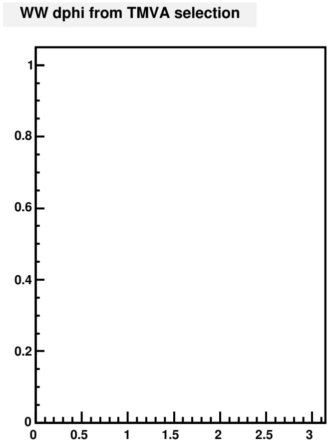
Zee dphi of muons, low Fake
Zmumu dphi of muons, low Fake


Ztautau dphi of muons, low Fake
fake dphi of muons, low Fake
WZ dphi of muons, low Fake
ZZ dphi of muons, low Fake
WW dphi of muons, low Fake
wgamma dphi of muons, low Fake
ttbar dphi of muons, low Fake
higgsww dphi of muons, low Fake
×10^-3
data dphi of muons, low Fake
Zee dphi from TMVA selection
Zmumu dphi from TMVA selection
Ztautau dphi from TMVA selection
fake dphi from TMVA selection
WZ dphi from TMVA selection


ZZ dphi from TMVA selection

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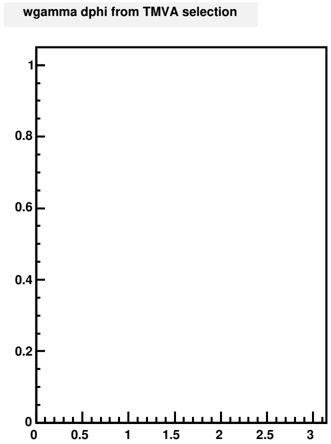
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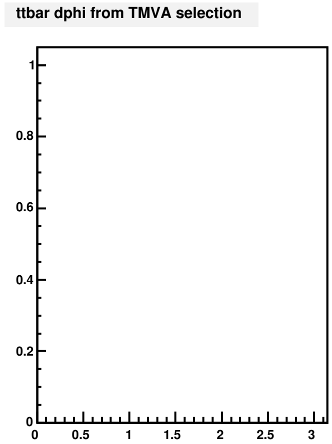
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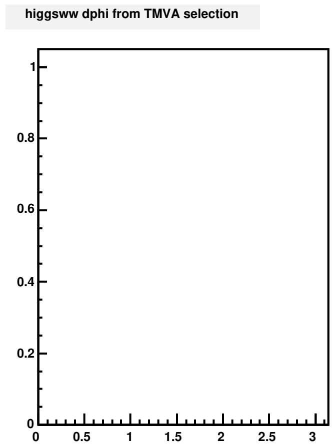
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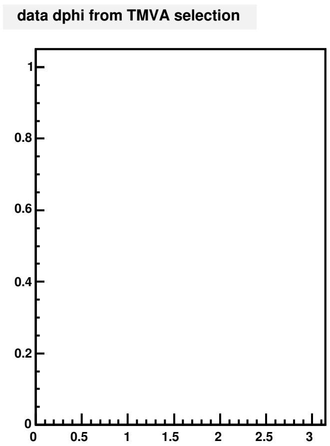
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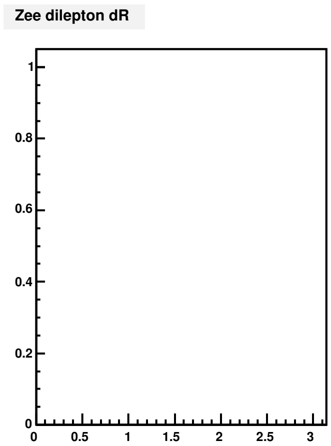
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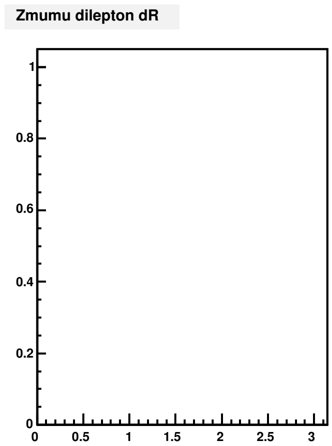
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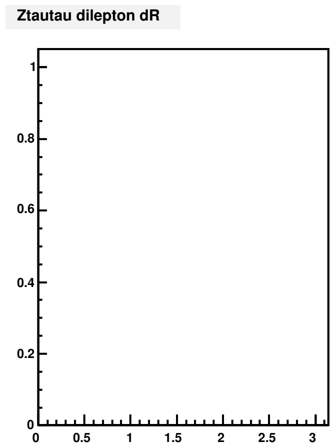
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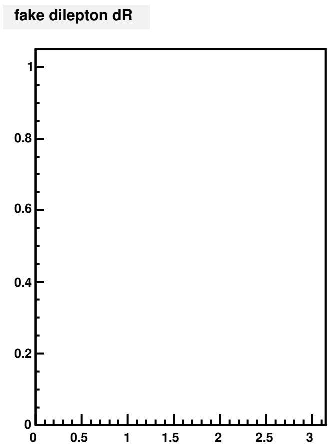
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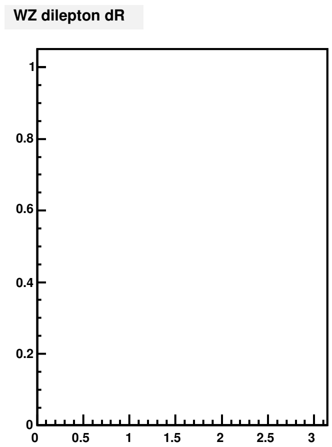
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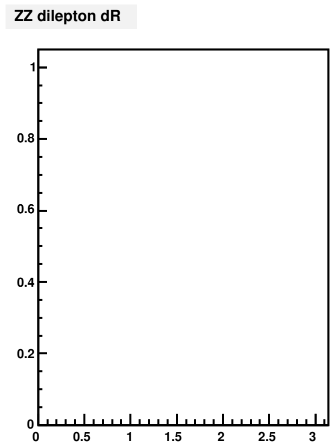
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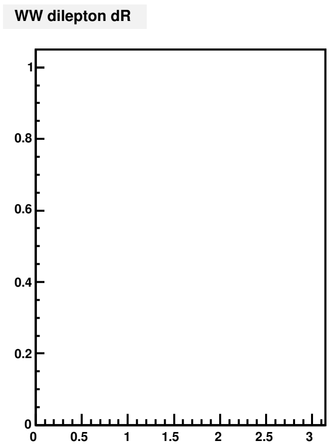
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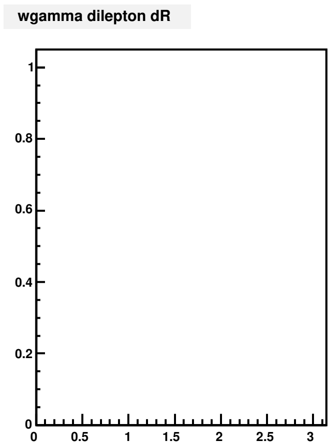
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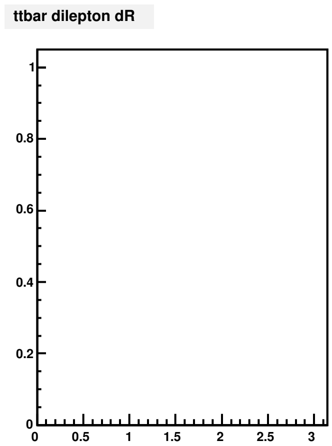
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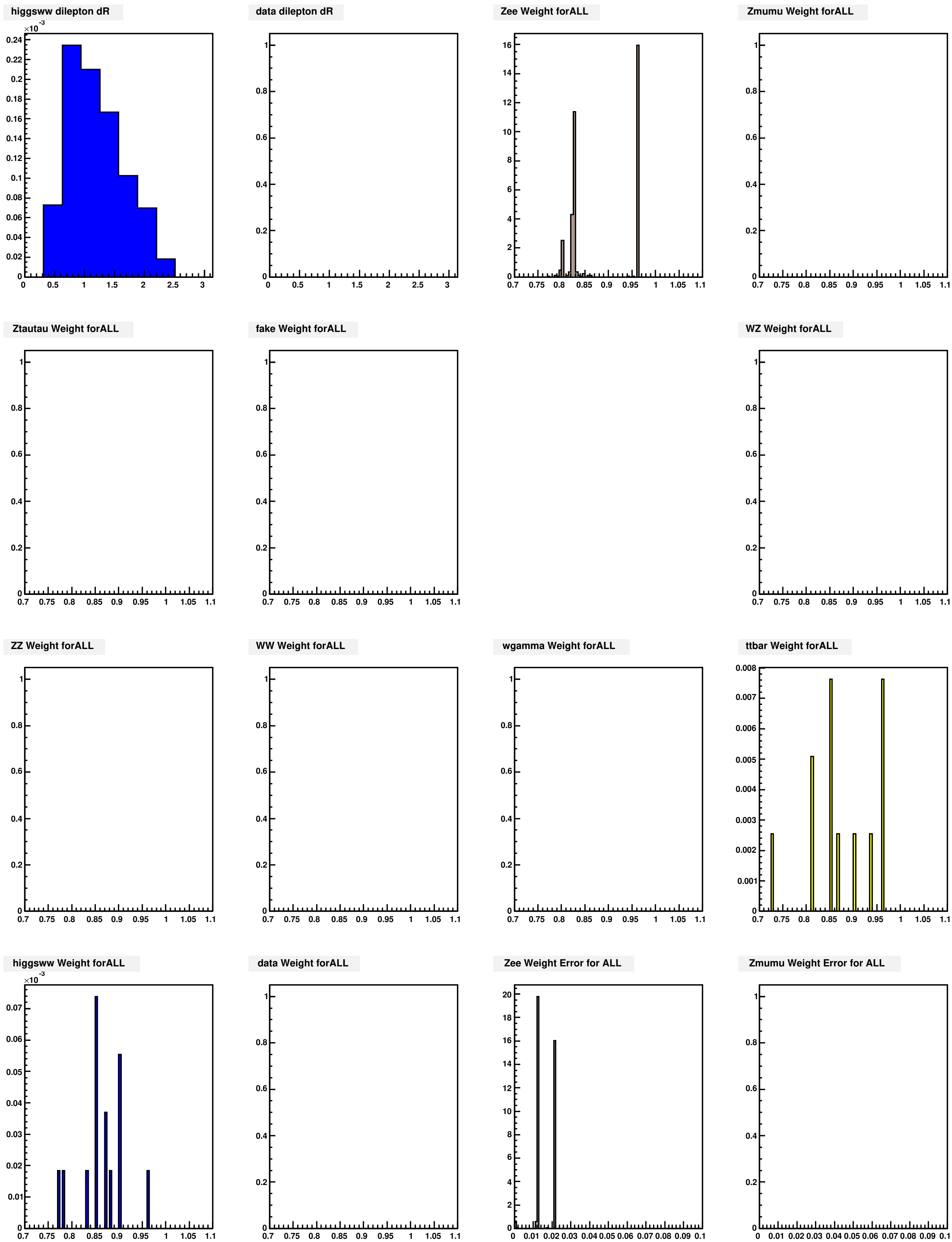
higgsww dilepton dR
data dilepton dR
Zee Weight forALL
Zmumu Weight forALL
Ztautau Weight forALL
fake Weight forALL
WZ Weight forALL
ZZ Weight forALL
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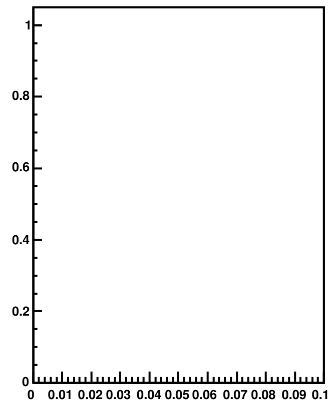


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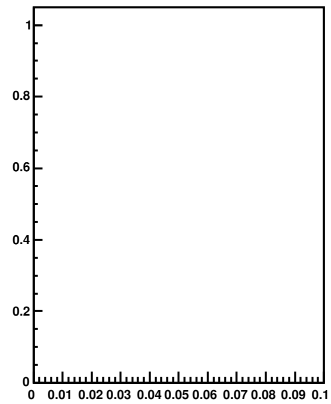


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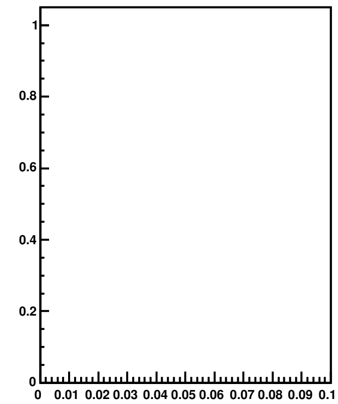


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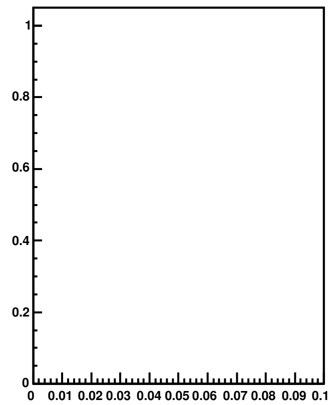


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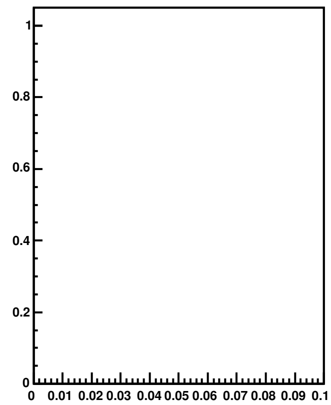


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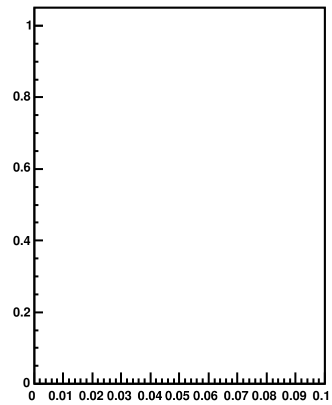


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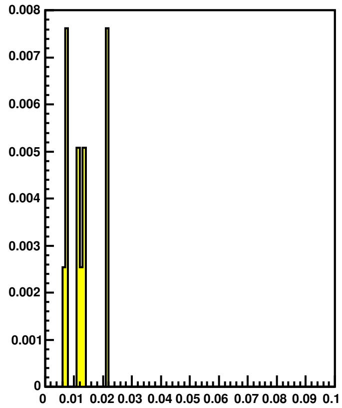


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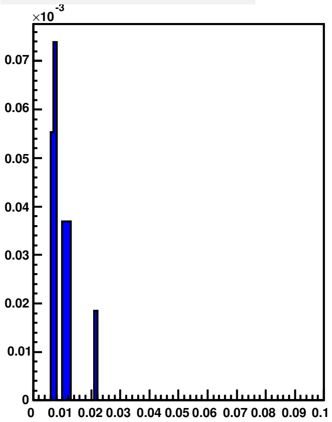


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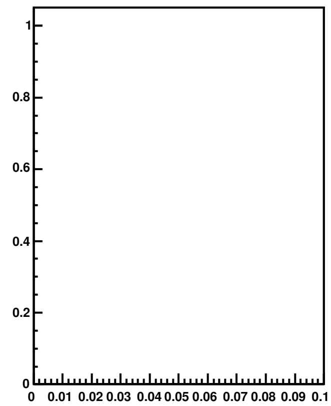
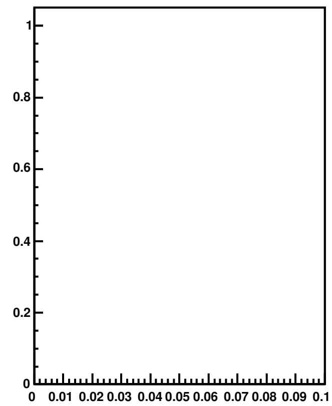



Zee Relative Weight Error for ALL

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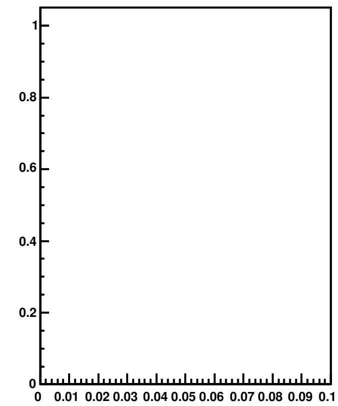


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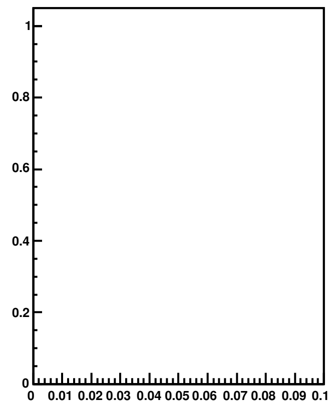
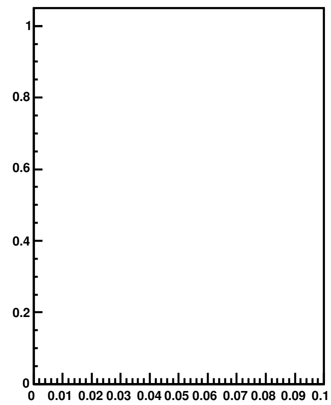



fake Relative Weight Error for ALL

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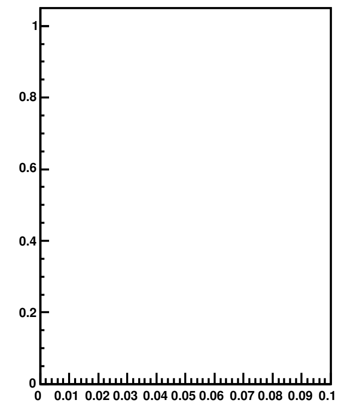

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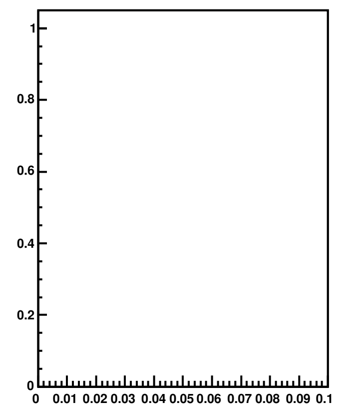

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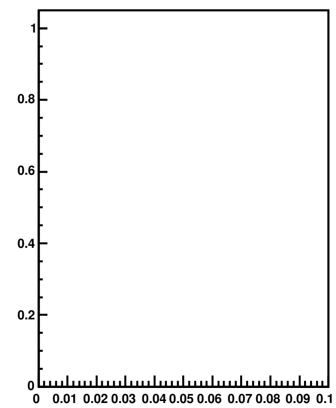

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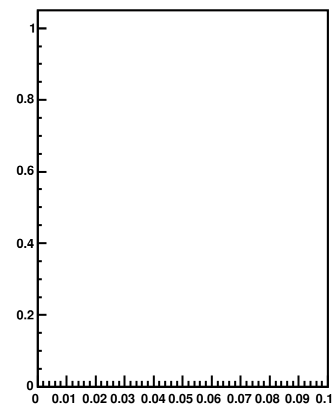

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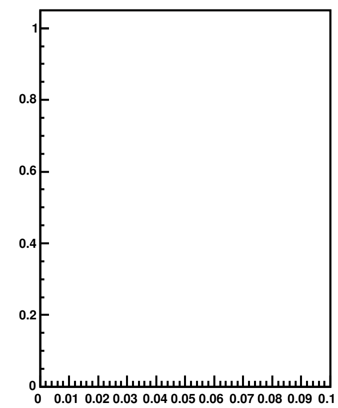
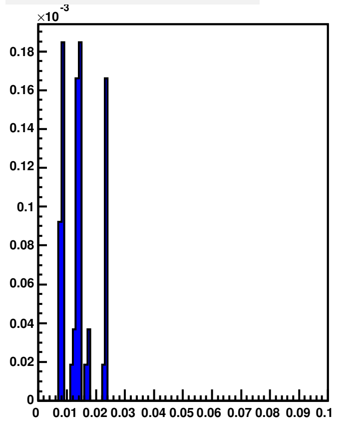


higgsww Relative Weight Error for ALL



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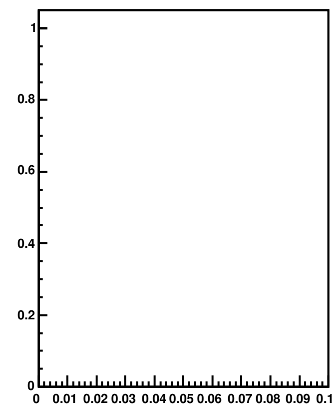
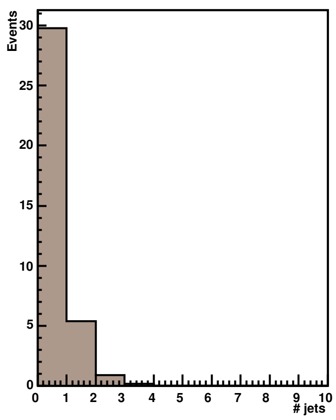


Zee Number of Jets in before Jet cut

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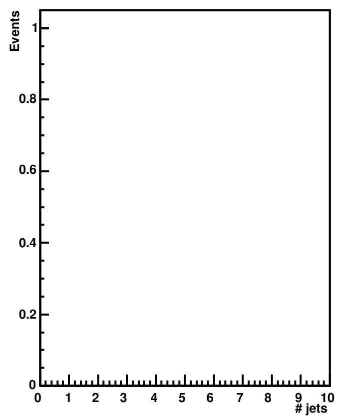


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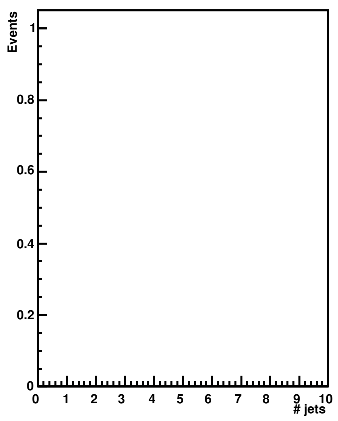
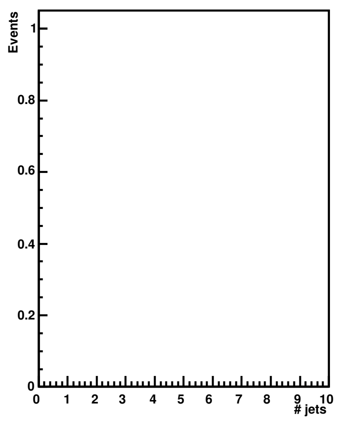
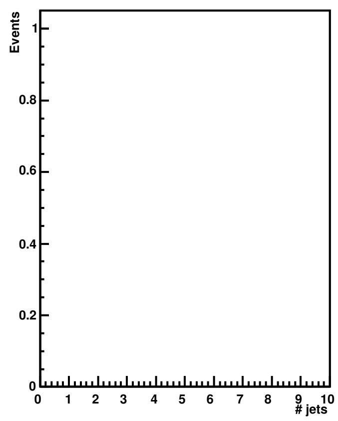


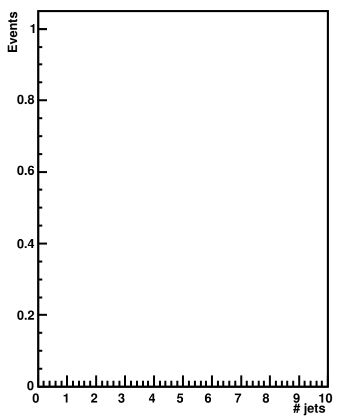

fake Number of Jets in before Jet cut



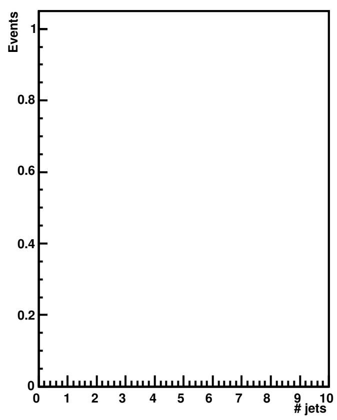

WZ Number of Jets in before Jet cut




ZZ Number of Jets in before Jet cut




WW Number of Jets in before Jet cut

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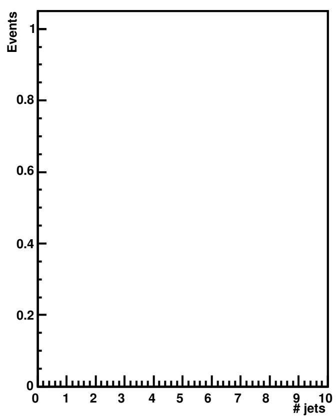
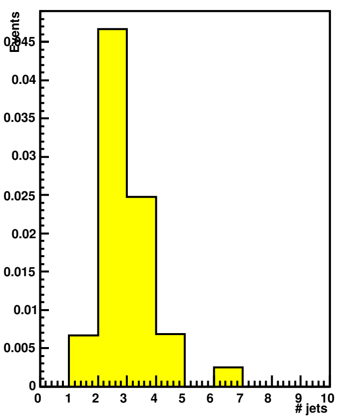
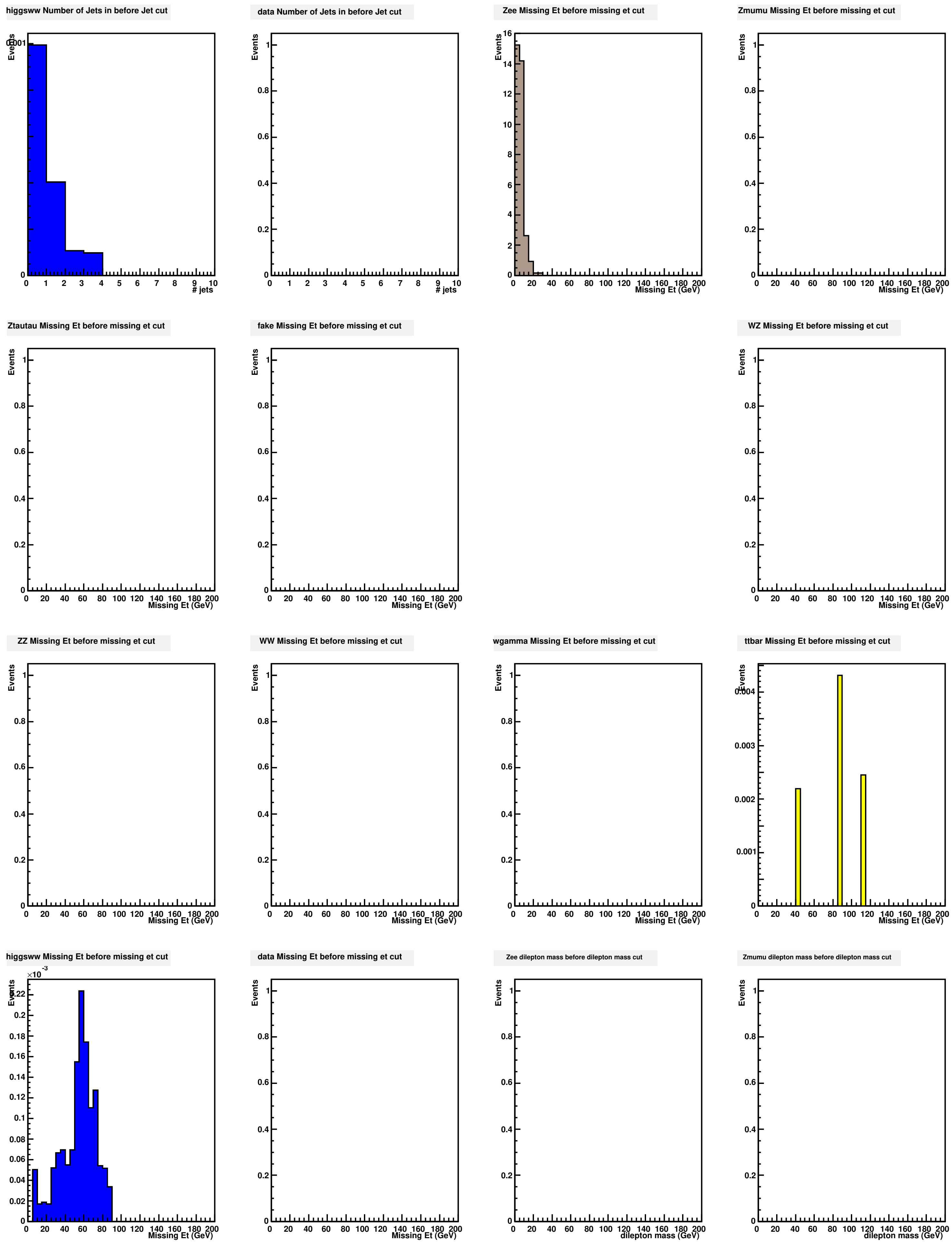
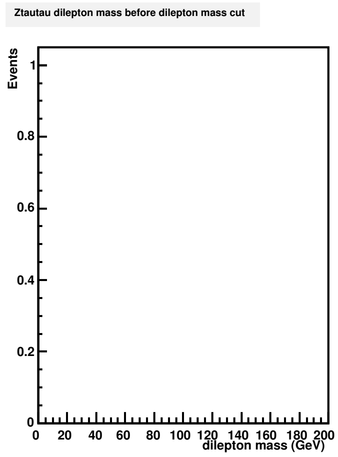


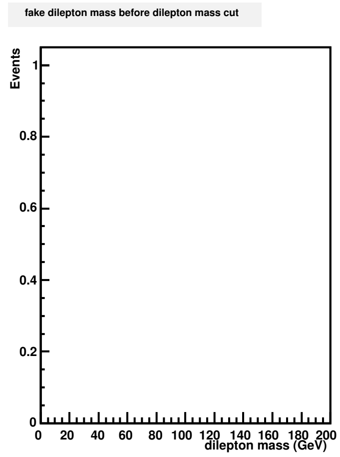

ttbar Number of Jets in before Jet cut

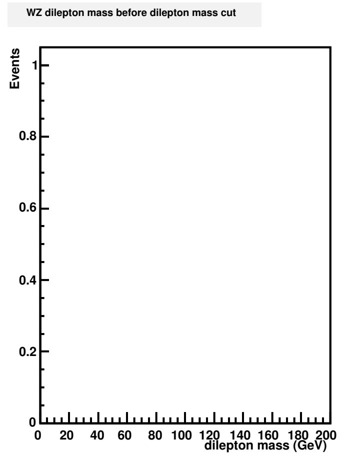


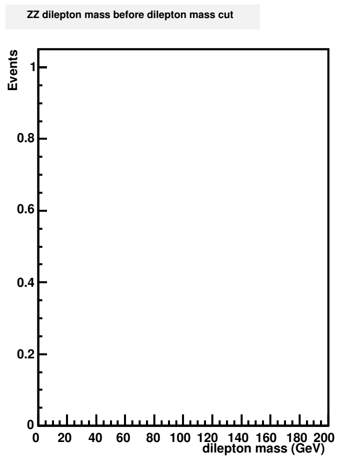


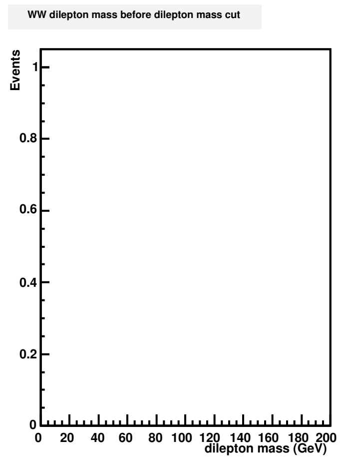
higgsww Number of Jets in before Jet cut
Events
# jets
data Number of Jets in before Jet cut
Events
# jets
Zee Missing Et before missing et cut
Events
Missing Et (GeV)
Zmumu Missing Et before missing et cut
Events
Missing Et (GeV)
Ztautau Missing Et before missing et cut
Events
Missing Et (GeV)
fake Missing Et before missing et cut
Events
Missing Et (GeV)
WZ Missing Et before missing et cut
Events
Missing Et (GeV)
ZZ Missing Et before missing et cut
Events
Missing Et (GeV)
WW Missing Et before missing et cut
Events
Missing Et (GeV)
wgamma Missing Et before missing et cut
Events
Missing Et (GeV)
ttbar Missing Et before missing et cut
Events
Missing Et (GeV)
higgsww Missing Et before missing et cut
Events
Missing Et (GeV)
data Missing Et before missing et cut
Events
Missing Et (GeV)
Zee dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)
Zmumu dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

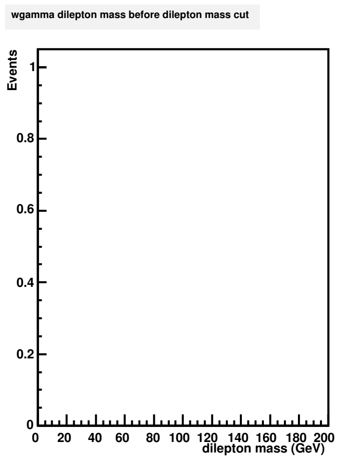

Ztautau dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

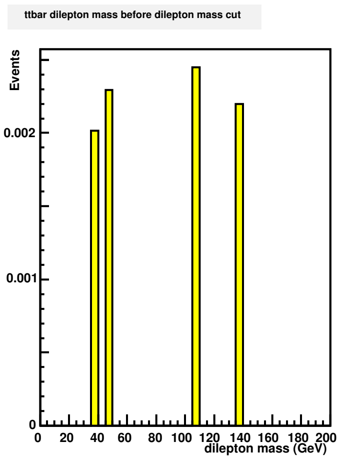

fake dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

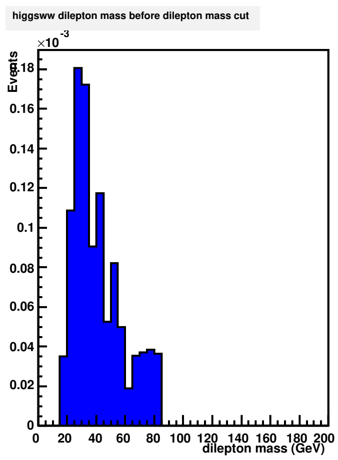

WZ dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

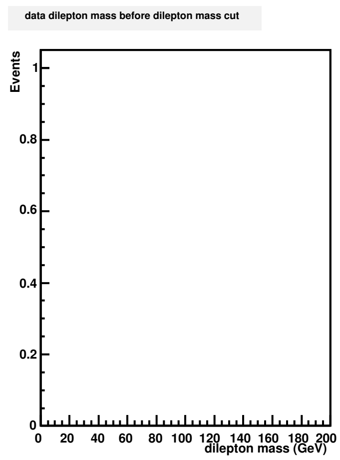

ZZ dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

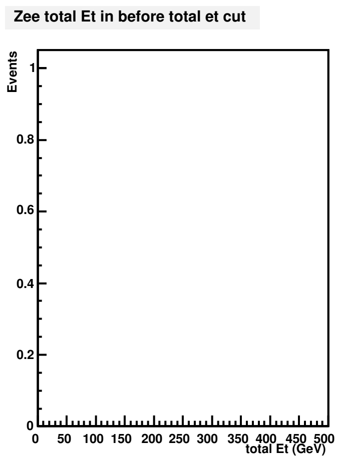

WW dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

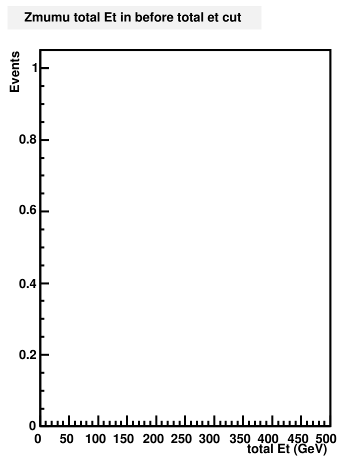

wgamma dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

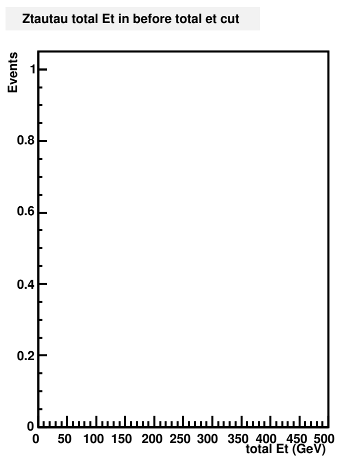

ttbar dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

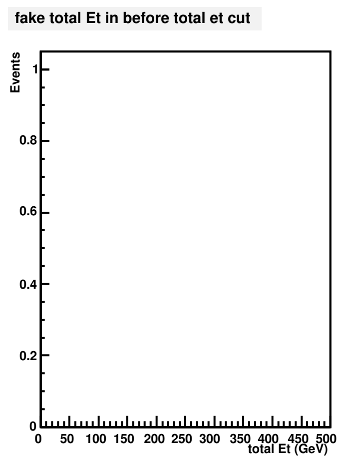

higgsww dilepton mass before dilepton mass cut
×10-3
Events
dilepton mass (GeV)

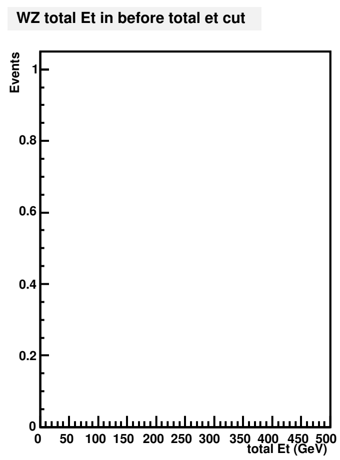

data dilepton mass before dilepton mass cut
Events
dilepton mass (GeV)

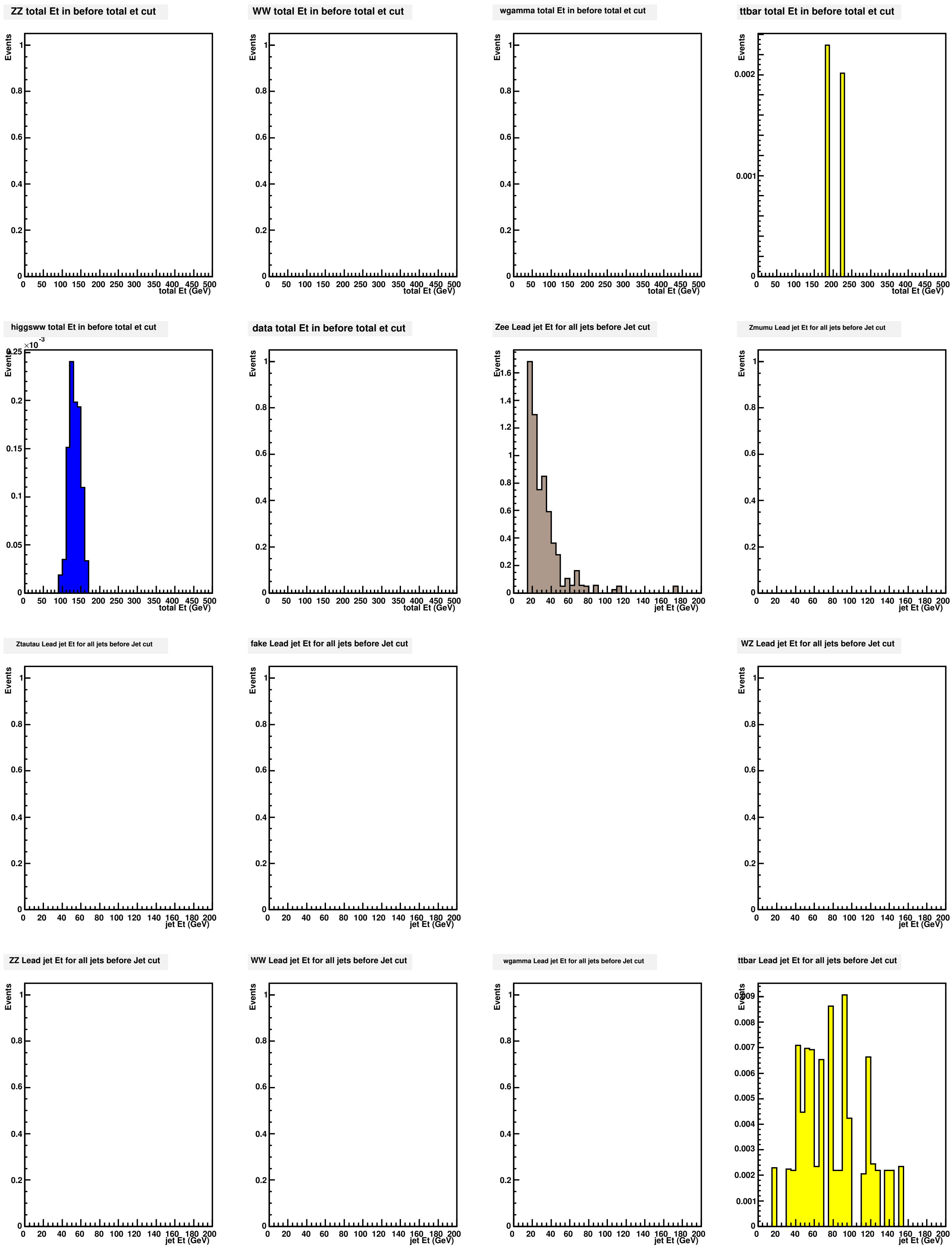

Zee total Et in before total et cut
Events
total Et (GeV)


Zmumu total Et in before total et cut
Events
total Et (GeV)

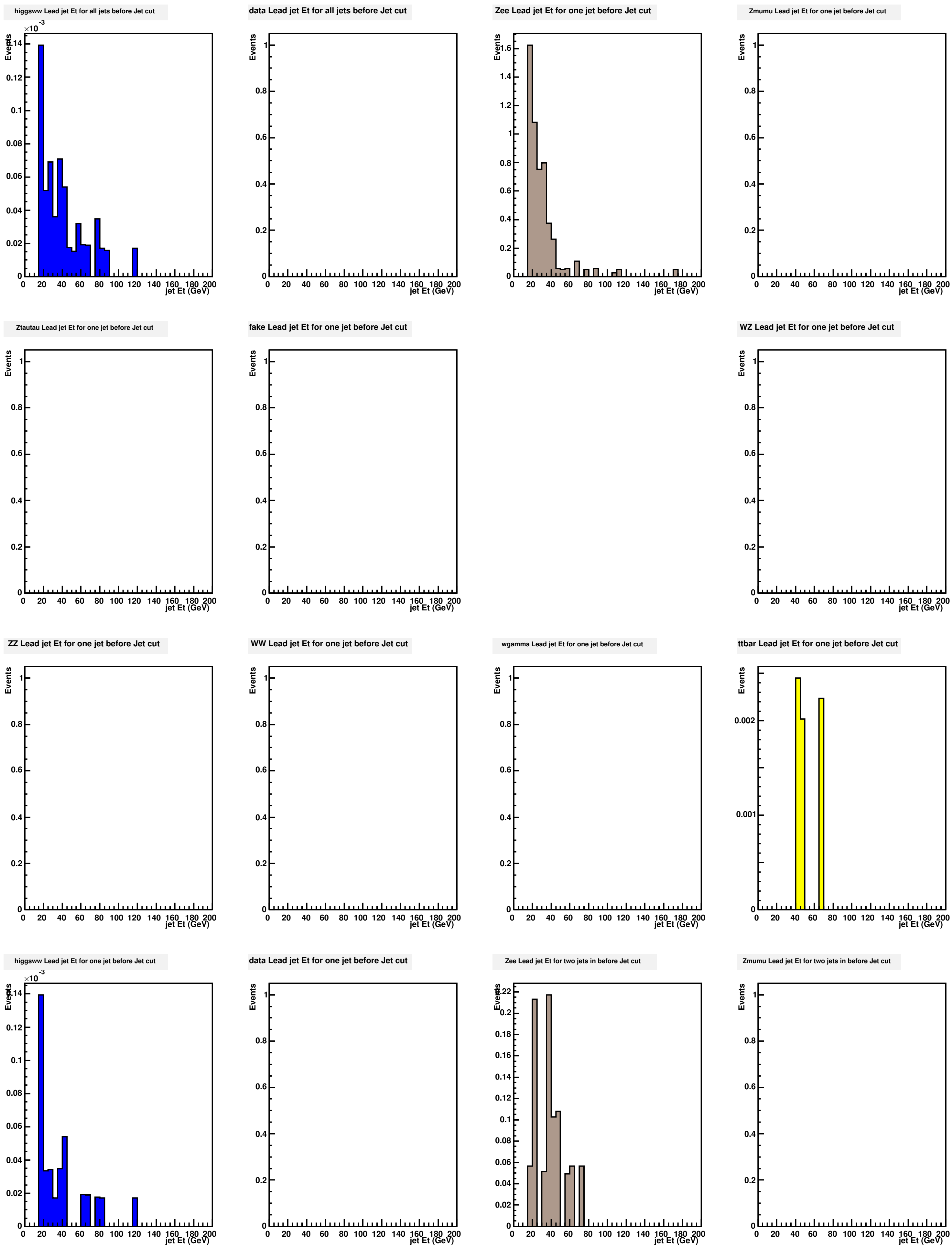

Ztautau total Et in before total et cut
Events
total Et (GeV)

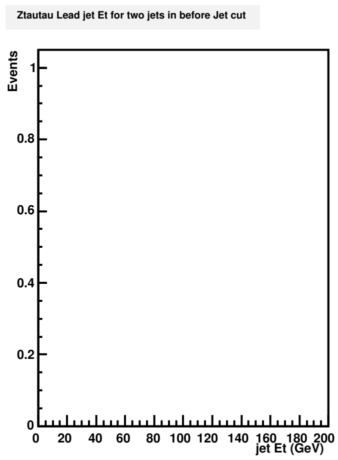

fake total Et in before total et cut
Events
total Et (GeV)


WZ total Et in before total et cut
Events
total Et (GeV)



ZZ total Et in before total et cut
WW total Et in before total et cut
wgamma total Et in before total et cut
ttbar total Et in before total et cut
higgsww total Et in before total et cut
data total Et in before total et cut
Zee Lead jet Et for all jets before Jet cut
Zmumu Lead jet Et for all jets before Jet cut
Ztautau Lead jet Et for all jets before Jet cut
fake Lead jet Et for all jets before Jet cut
WZ Lead jet Et for all jets before Jet cut
ZZ Lead jet Et for all jets before Jet cut
WW Lead jet Et for all jets before Jet cut
wgamma Lead jet Et for all jets before Jet cut
ttbar Lead jet Et for all jets before Jet cut
Events
total Et (GeV)
jet Et (GeV)


higgsww Lead jet Et for all jets before Jet cut
data Lead jet Et for all jets before Jet cut
Zee Lead jet Et for one jet before Jet cut
Zmumu Lead jet Et for one jet before Jet cut
Ztautau Lead jet Et for one jet before Jet cut
fake Lead jet Et for one jet before Jet cut
WZ Lead jet Et for one jet before Jet cut
ZZ Lead jet Et for one jet before Jet cut
WW Lead jet Et for one jet before Jet cut
wgamma Lead jet Et for one jet before Jet cut
ttbar Lead jet Et for one jet before Jet cut
higgsww Lead jet Et for one jet before Jet cut
data Lead jet Et for one jet before Jet cut
Zee Lead jet Et for two jets in before Jet cut
Zmumu Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)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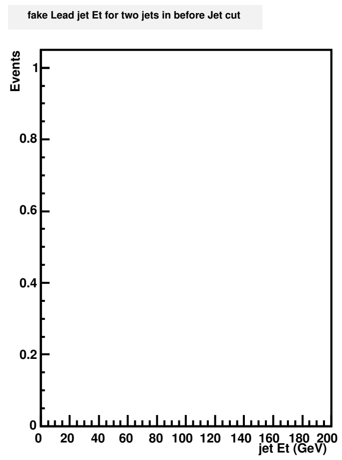
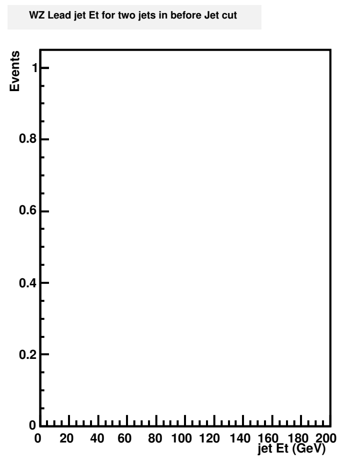
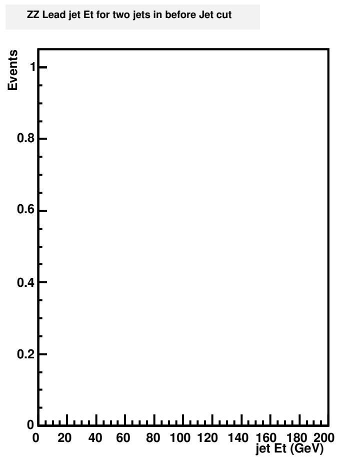
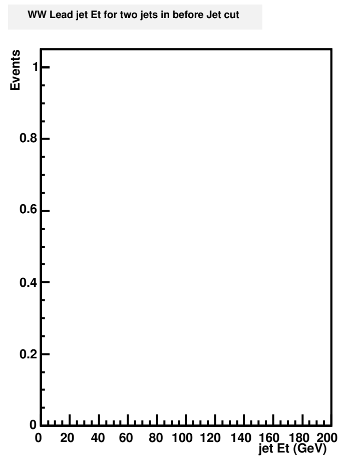
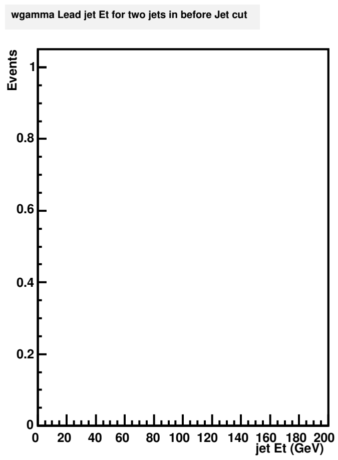
Events
jet Et (GeV)

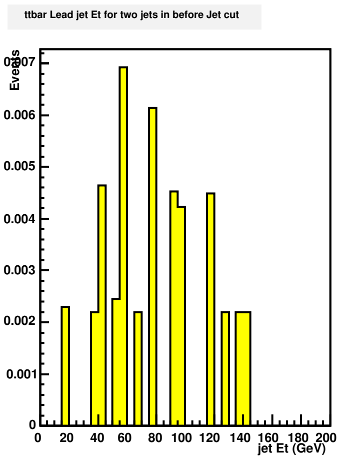

fake Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)

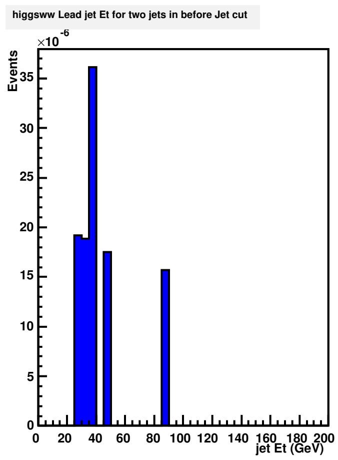

WZ Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)

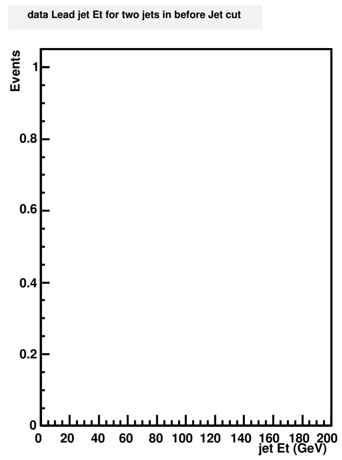

ZZ Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)


WW Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)


wgamma Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)


ttbar Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)


higgsww Lead jet Et for two jets in before Jet cut
Events
jet Et (GeV)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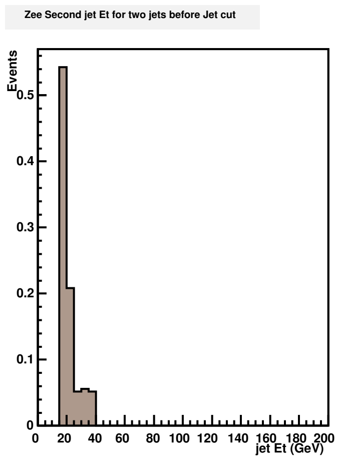
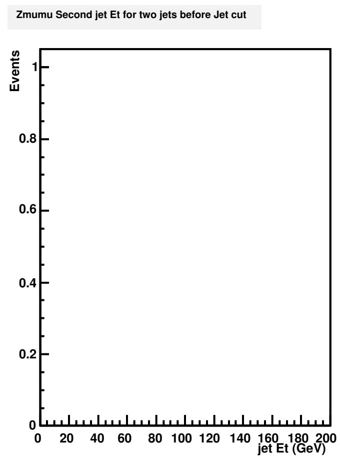
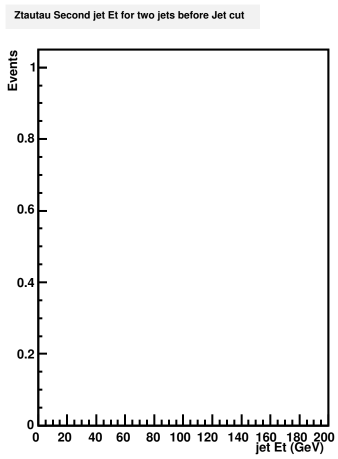
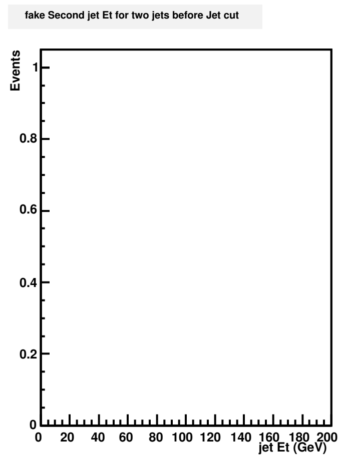
Events
jet Et (GeV)


Zee Second jet Et for two jets before Jet cut
Events
jet Et (GeV)


Zmumu Second jet Et for two jets before Jet cut
Events
jet Et (GeV)


Ztautau Second jet Et for two jets before Jet cut
Events
jet Et (GeV)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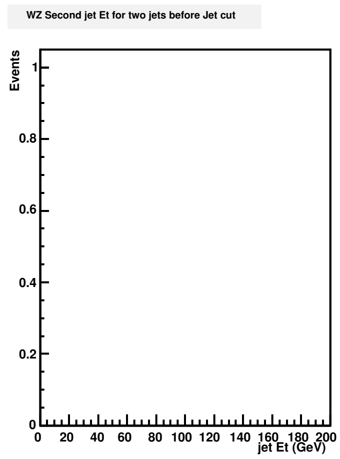
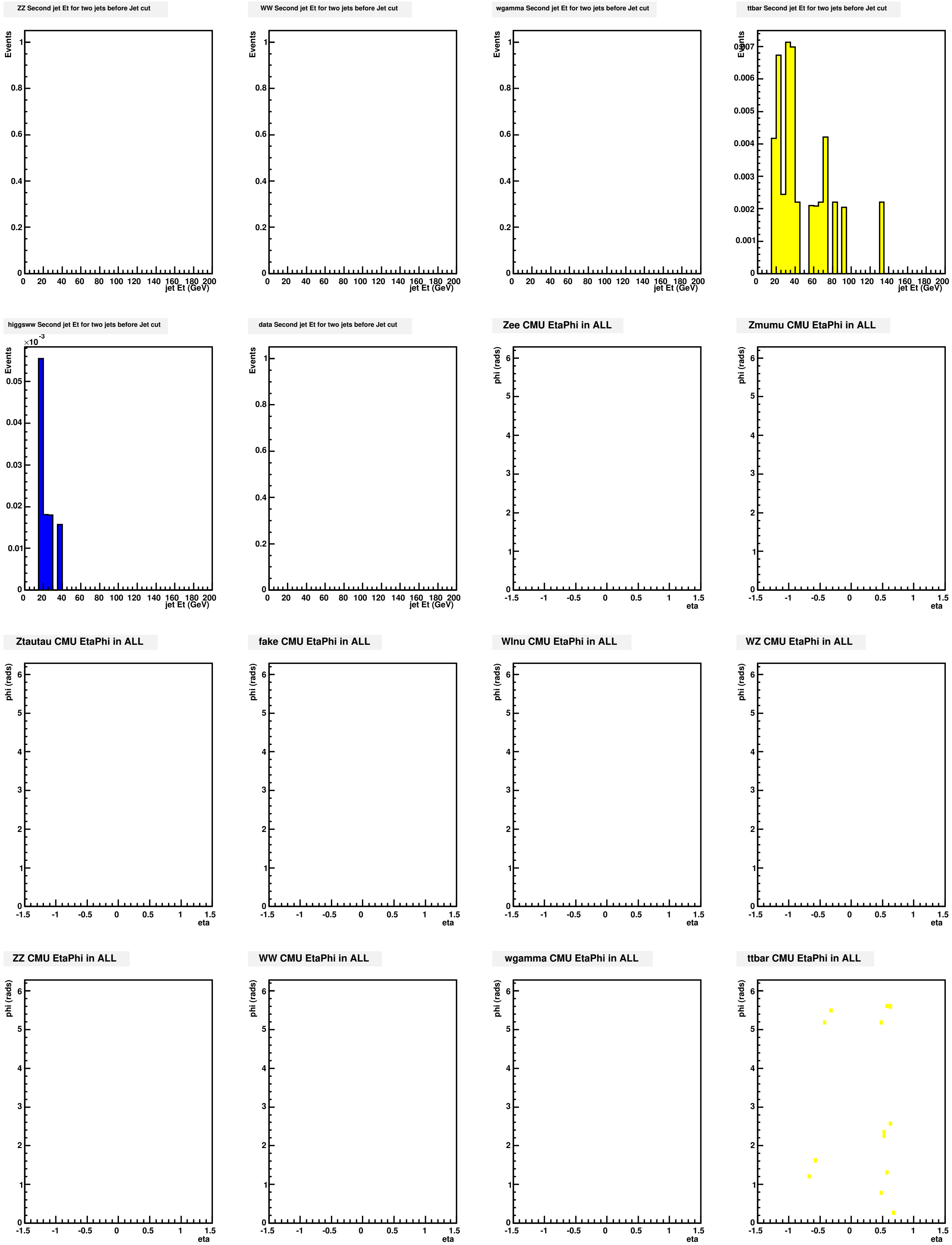
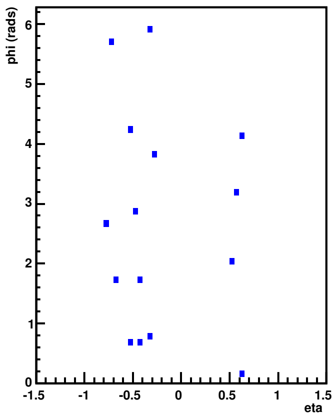
Events
jet Et (GeV)


WZ Second jet Et for two jets before Jet cut
Events
jet Et (GeV)


ZZ Second jet Et for two jets before Jet cut
WW Second jet Et for two jets before Jet cut
wgamma Second jet Et for two jets before Jet cut
ttbar Second jet Et for two jets before Jet cut
higgsww Second jet Et for two jets before Jet cut
data Second jet Et for two jets before Jet cut
Zee CMU EtaPhi in ALL
Zmumu CMU EtaPhi in ALL
Ztautau CMU EtaPhi in ALL
fake CMU EtaPhi in ALL
Wlnu CMU EtaPhi in ALL
WZ CMU EtaPhi in ALL
ZZ CMU EtaPhi in ALL
WW CMU EtaPhi in ALL
wgamma CMU EtaPhi in ALL
ttbar CMU EtaPhi in ALL
Events
jet Et (GeV)
phi (rads)
eta
$\times10^{-3}$

higgsww CMU EtaPhi in ALL

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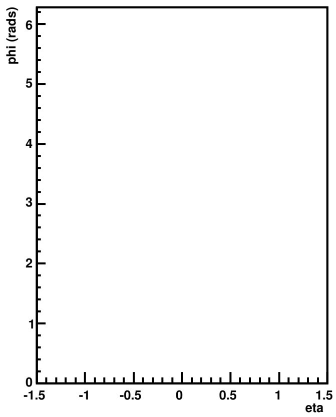


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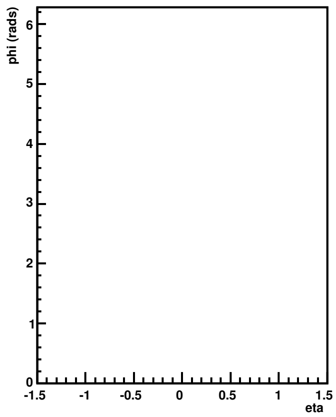


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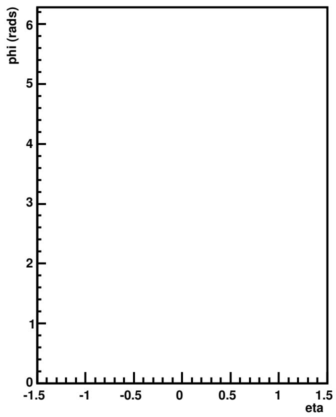


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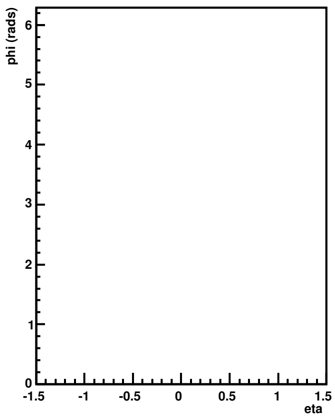


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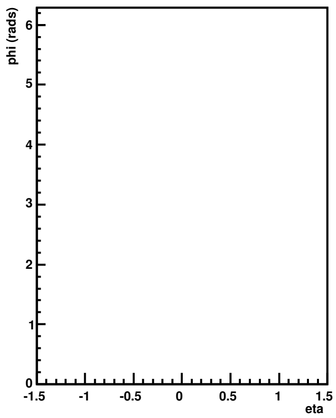


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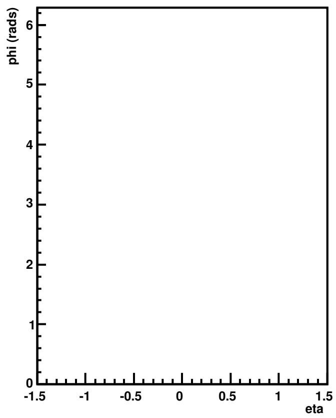


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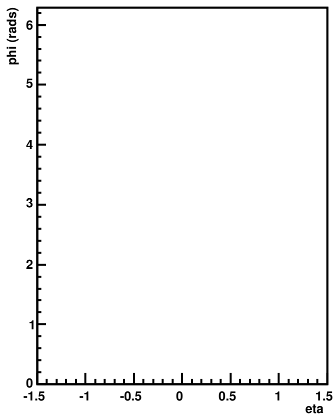


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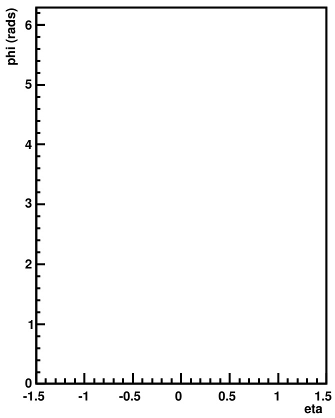
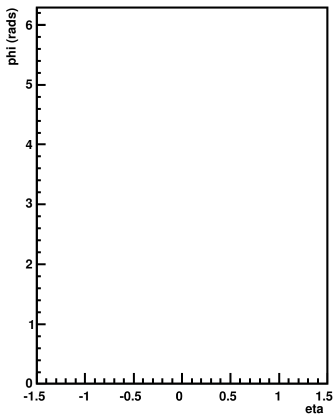
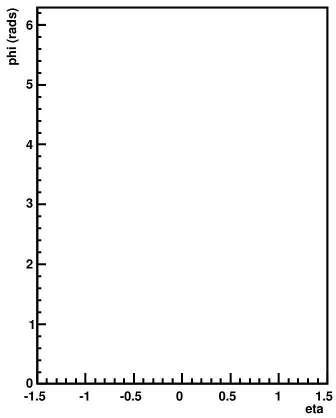


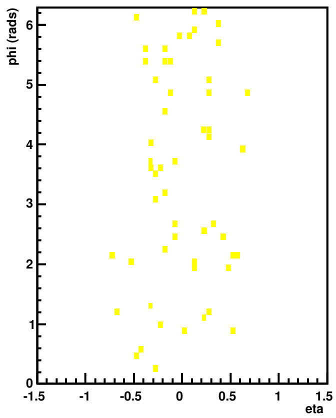

WW CMUP EtaPhi in ALL



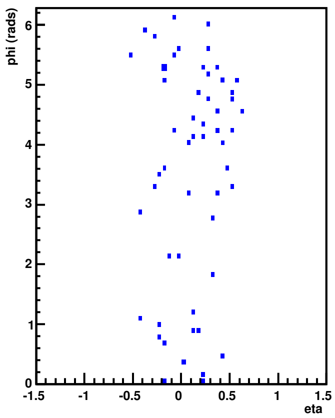

wgamma CMUP EtaPhi in ALL



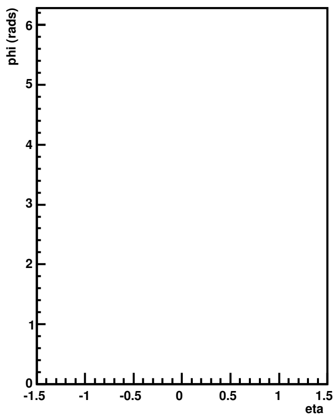

ttbar CMUP EtaPhi in ALL



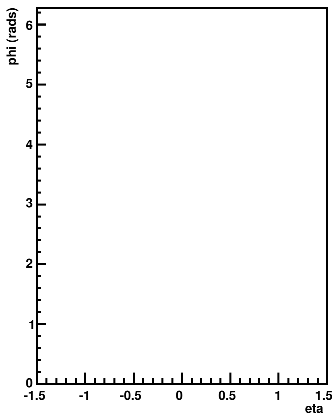

higgsww CMUP EtaPhi in ALL




data CMUP EtaPhi in ALL




Zee CMP EtaPhi in ALL

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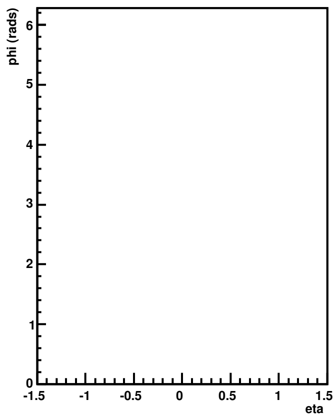
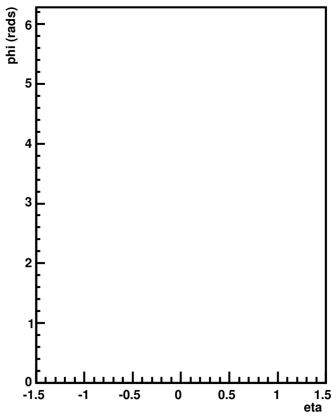
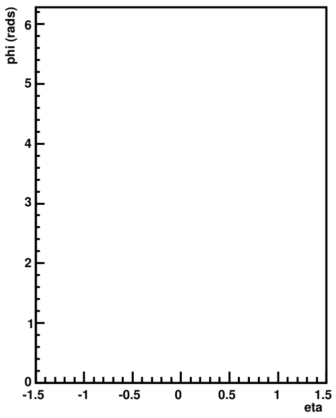


Ztautau CMP EtaPhi in ALL




fake CMP EtaPhi in ALL

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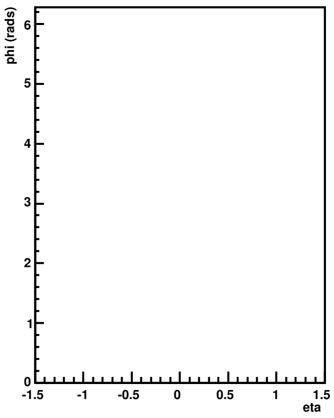


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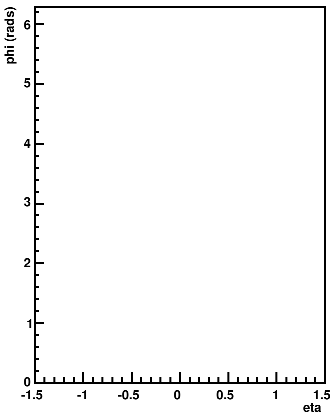
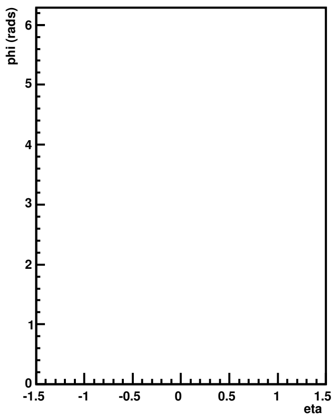



ZZ CMP EtaPhi in ALL

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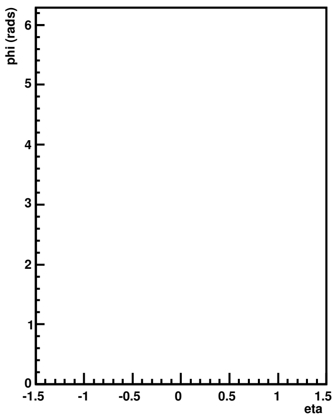


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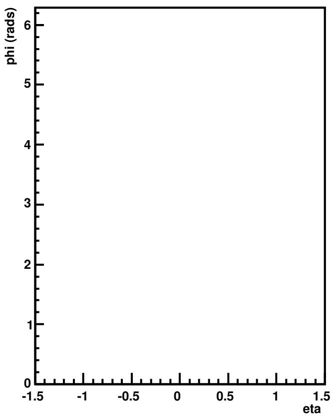
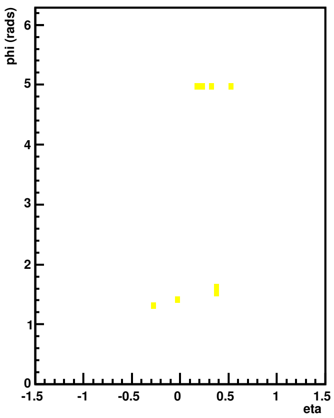
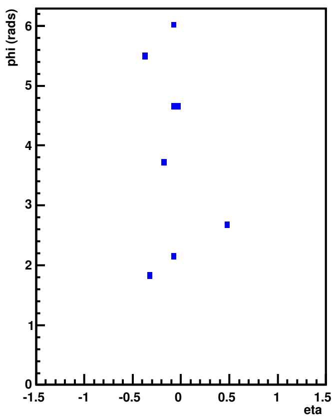


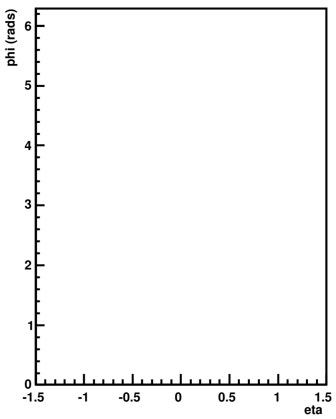

ttbar CMP EtaPhi in ALL



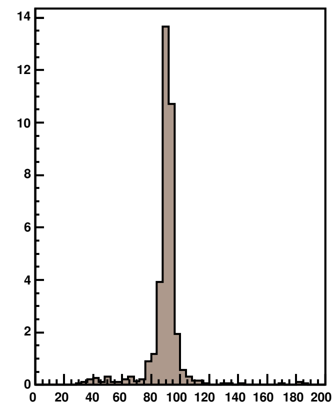

higgsww CMP EtaPhi in ALL



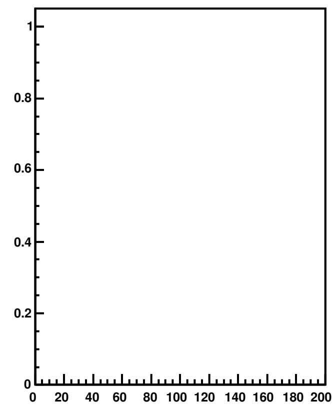

data CMP EtaPhi in ALL



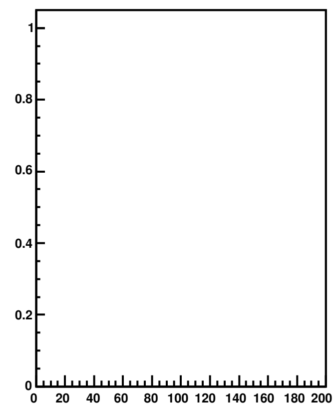

Zee Mass Full Range



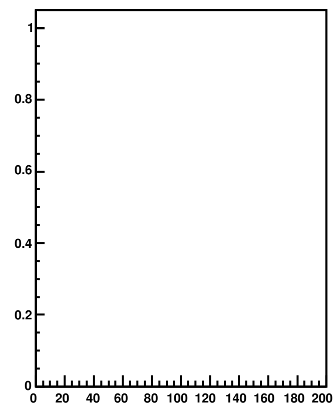
Zmumu Mass Full Range



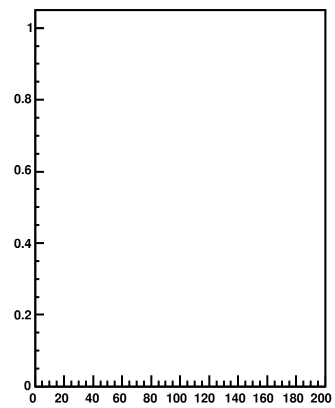
Ztautau Mass Full Range

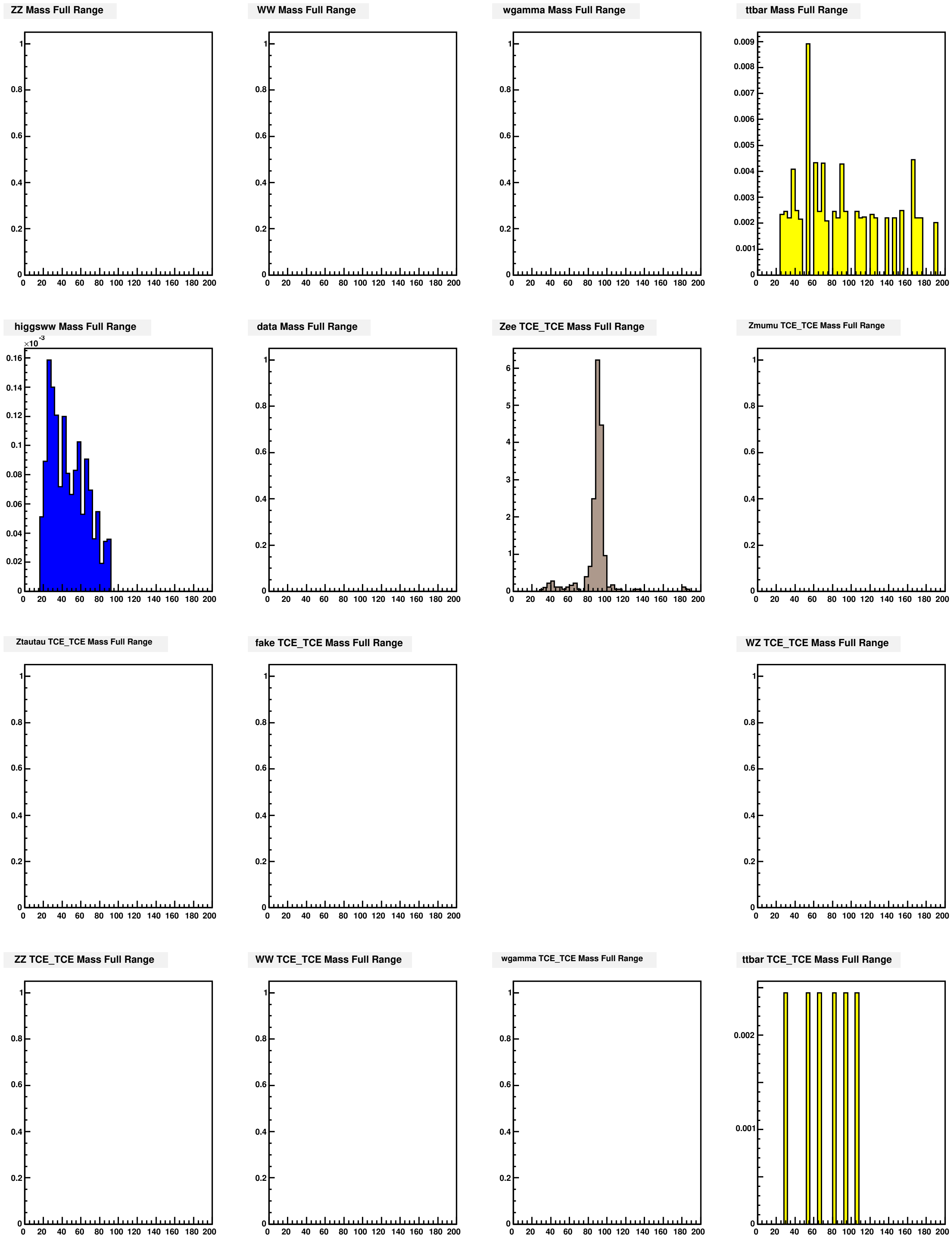


fake Mass Full Range



WZ Mass Full Range

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WW Mass Full Range
wgamma Mass Full Range
ttbar Mass Full Range
higgsww Mass Full Range
data Mass Full Range
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Zmumu TCE_TCE Mass Full Range
Ztautau TCE_TCE Mass Full Range
fake TCE_TCE Mass Full Range
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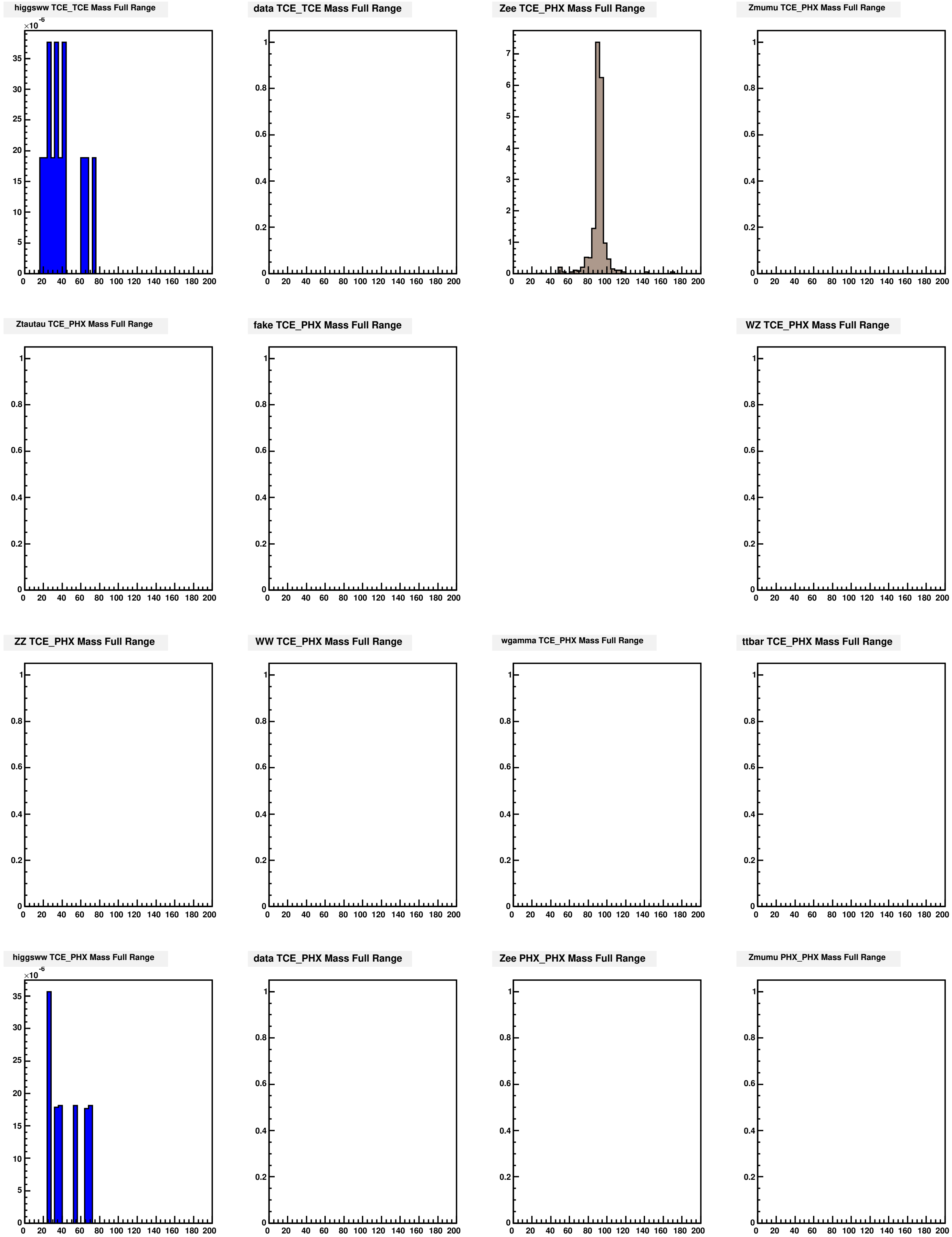
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Zmumu TCE_PHX Mass Full Range
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fake TCE_PHX Mass Full Range
WZ TCE_PHX Mass Full Range
ZZ TCE_PHX Mass Full Range
WW TCE_PHX Mass Full Range
wgamma TCE_PHX Mass Full Range
ttbar TCE_PHX Mass Full Range
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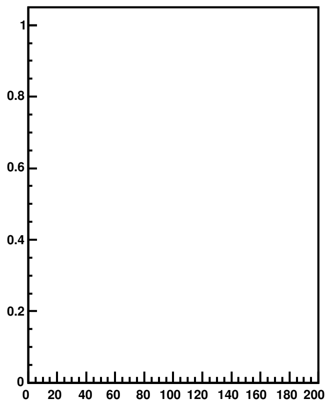


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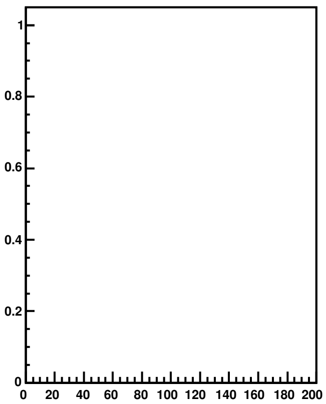


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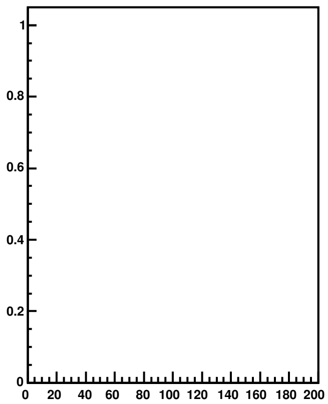


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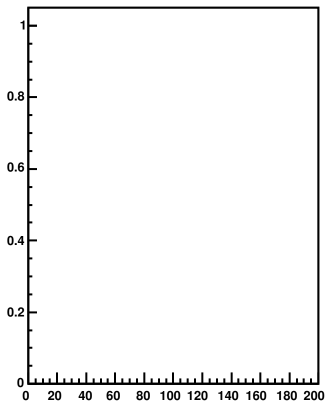


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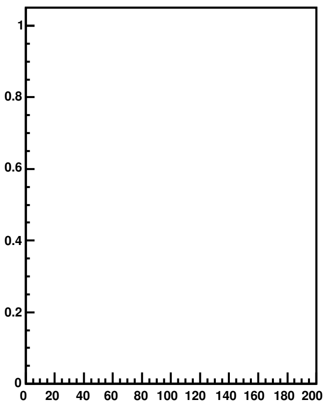


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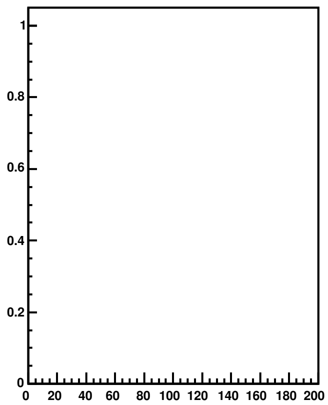


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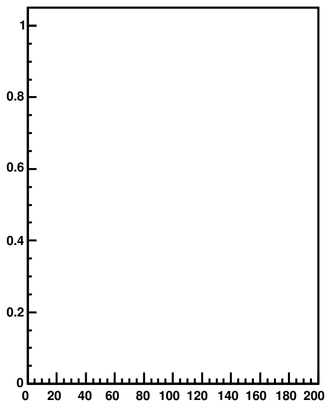


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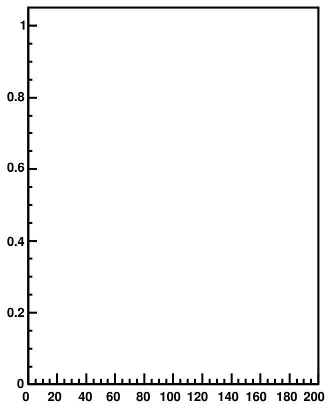


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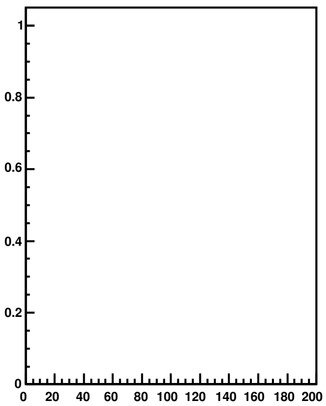


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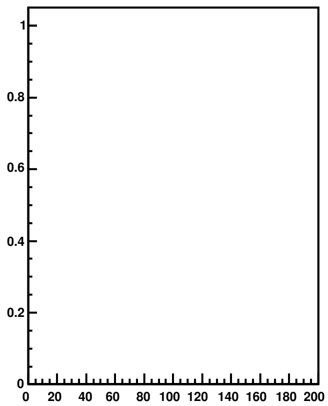


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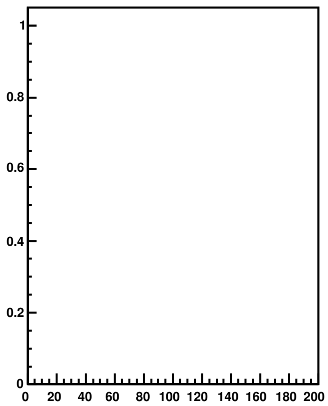


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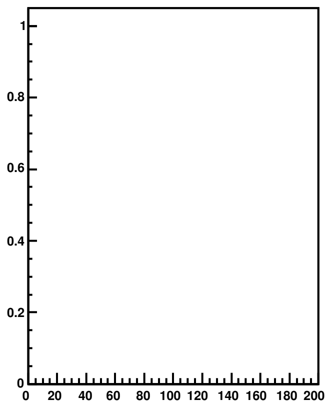


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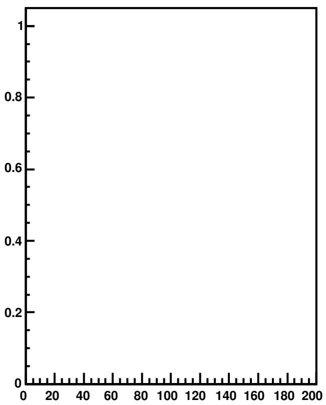


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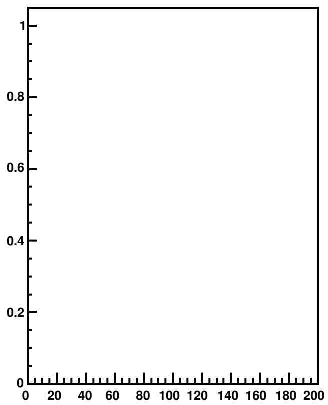

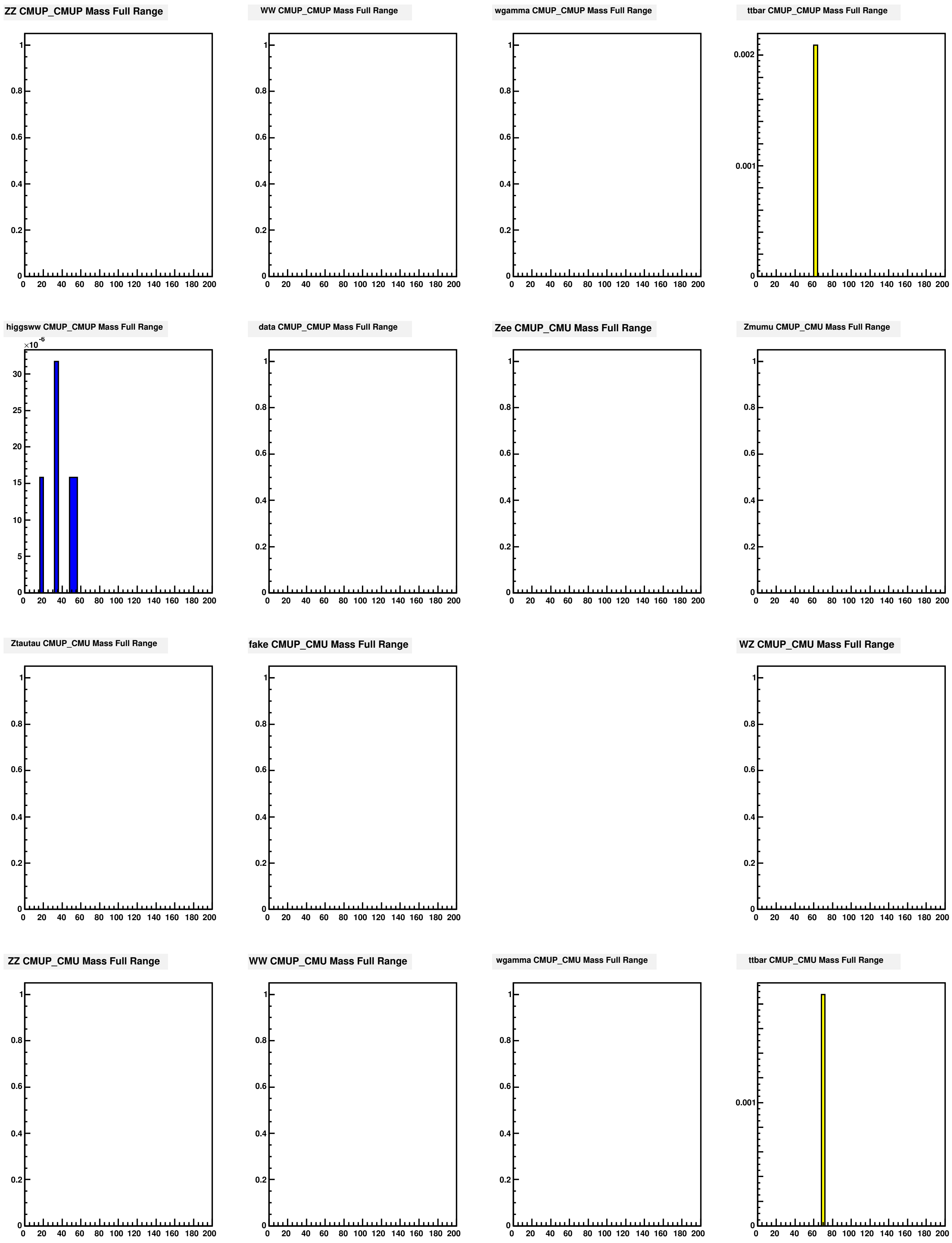

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Zee CMUP_CMU Mass Full Range
Zmumu CMUP_CMU Mass Full Range
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fake CMUP_CMU Mass Full Range
WZ CMUP_CMU Mass Full Range
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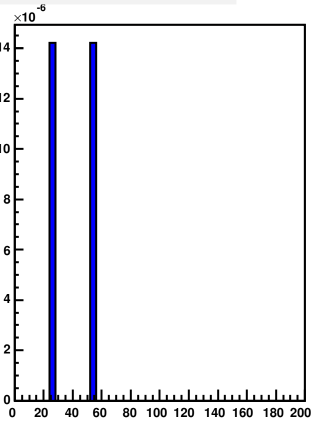


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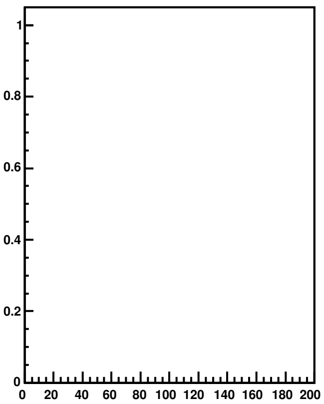


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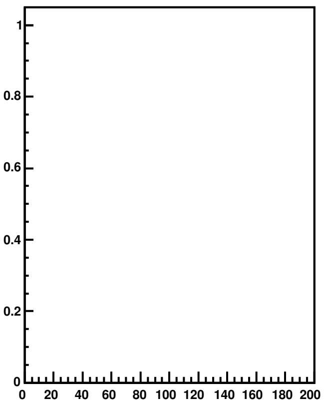


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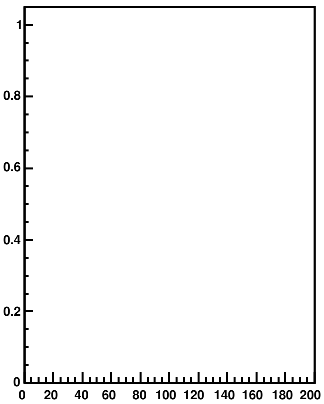


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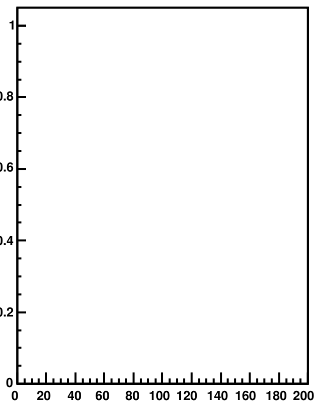


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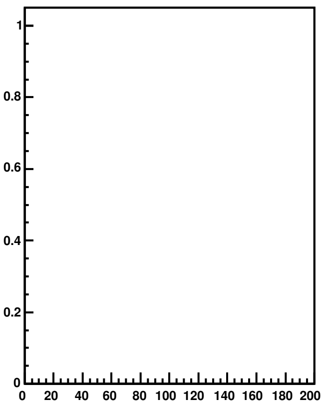


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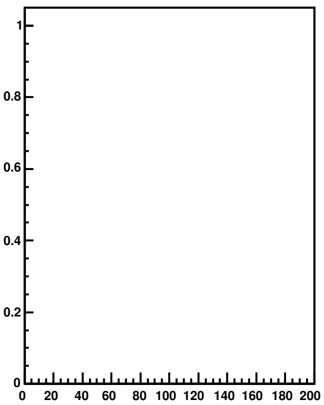


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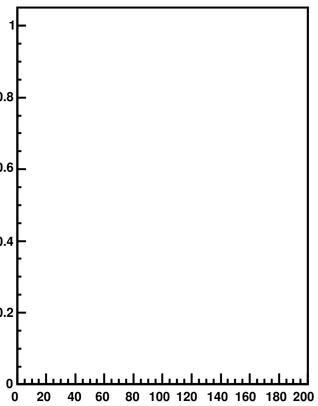


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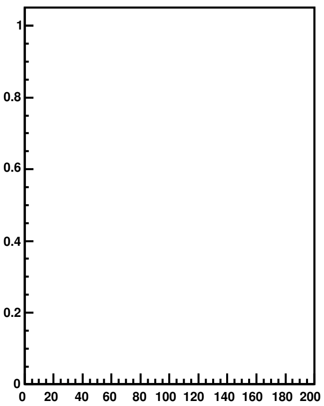


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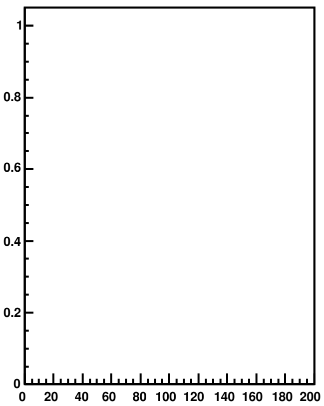


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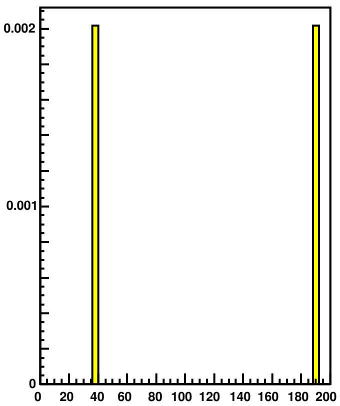


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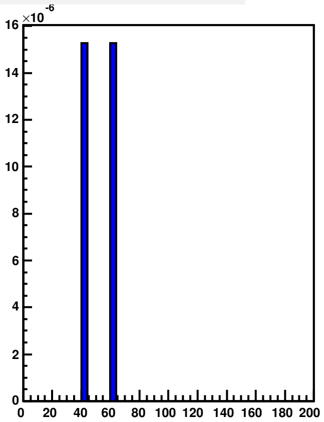


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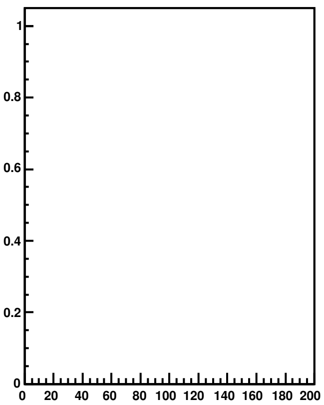


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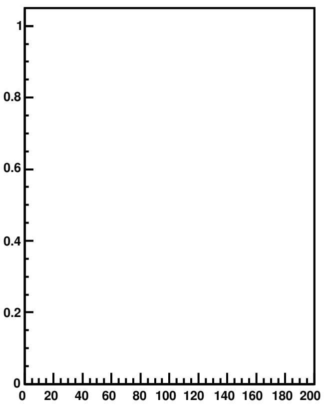


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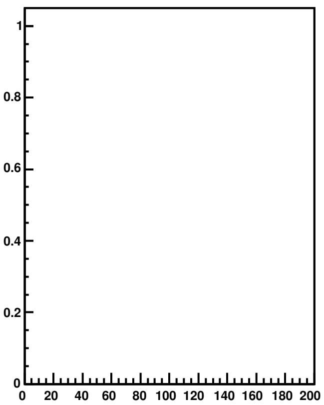

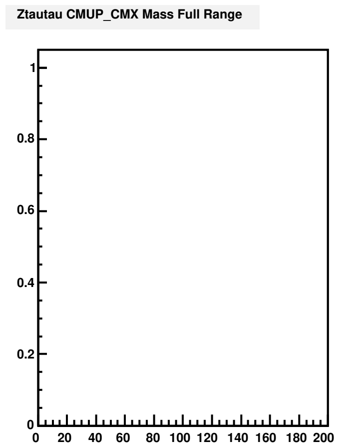
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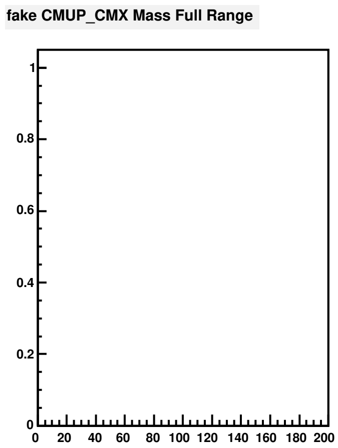
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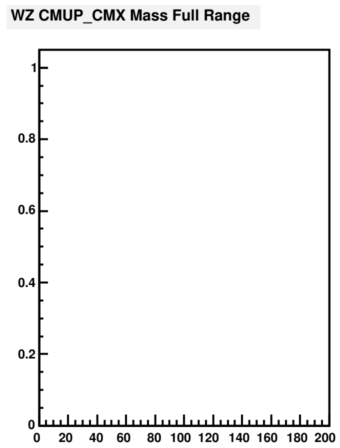
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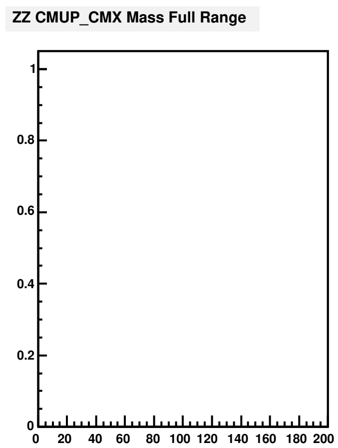
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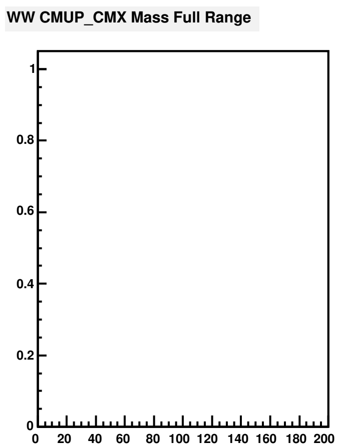
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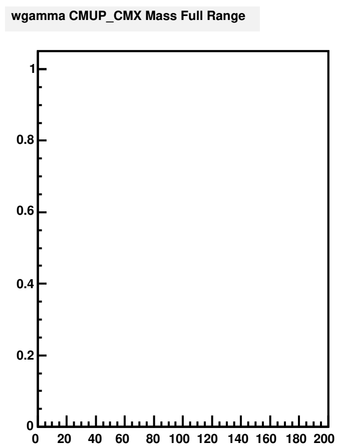
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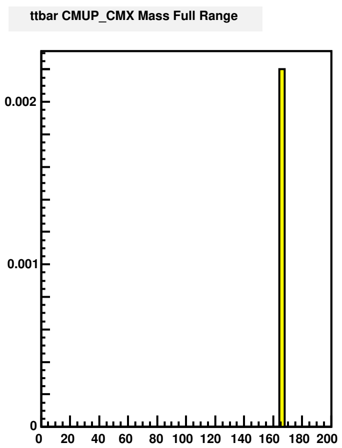
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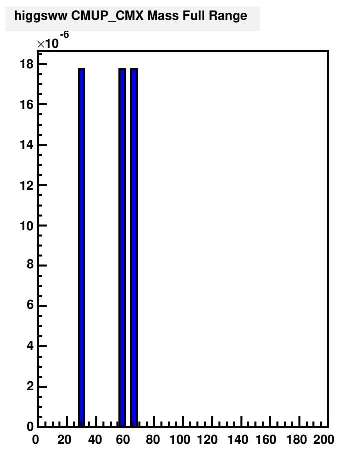
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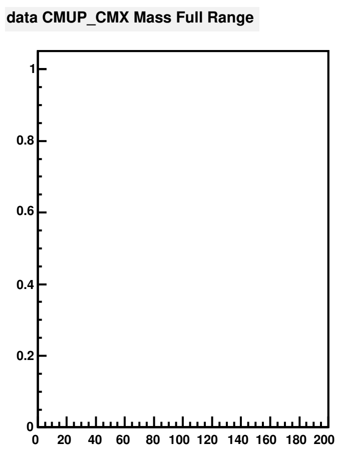
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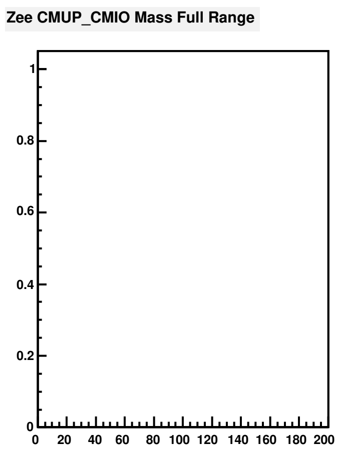
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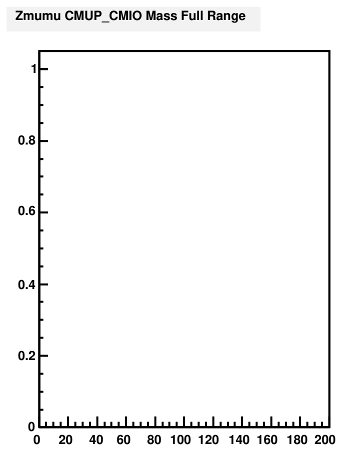
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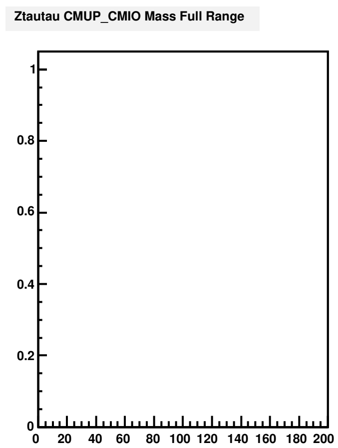
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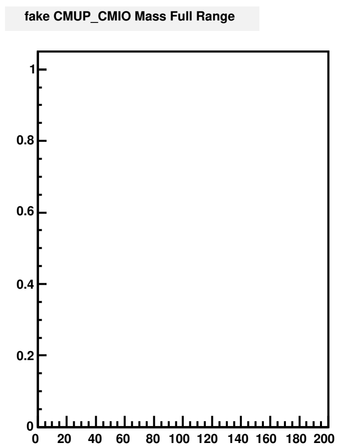
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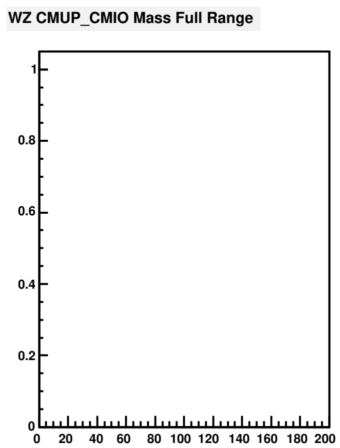
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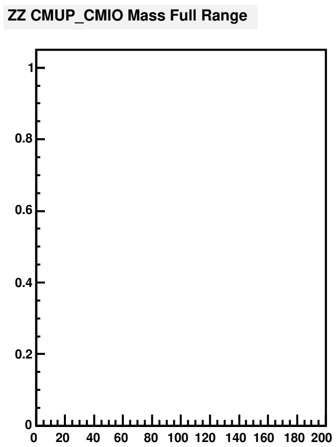
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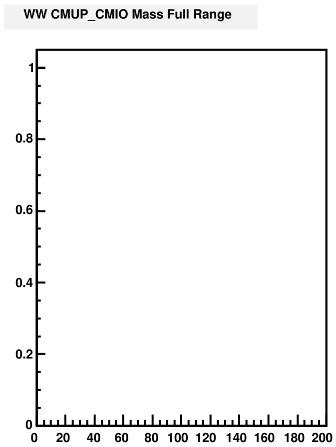
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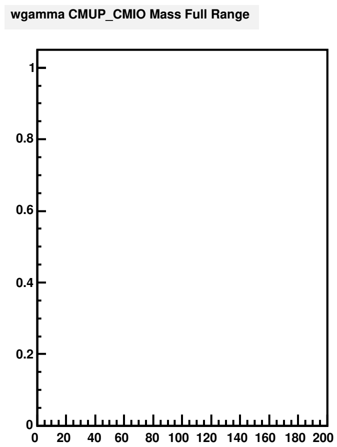
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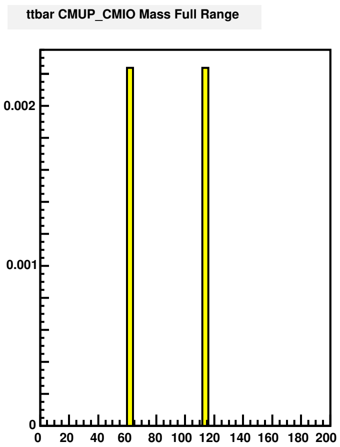
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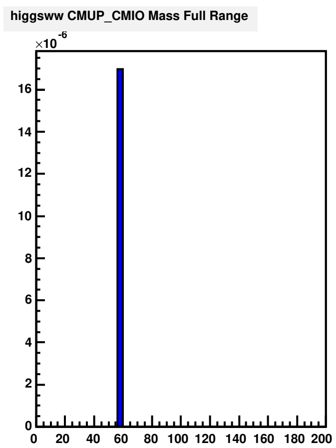
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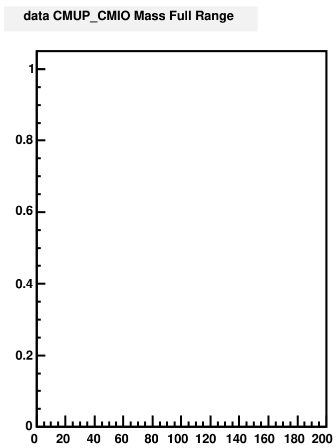
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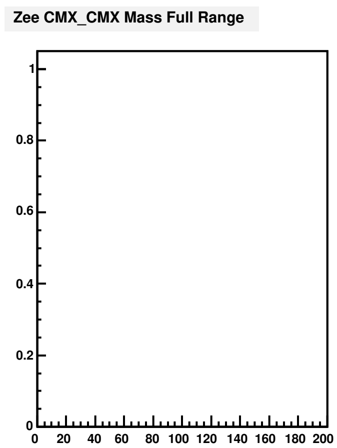
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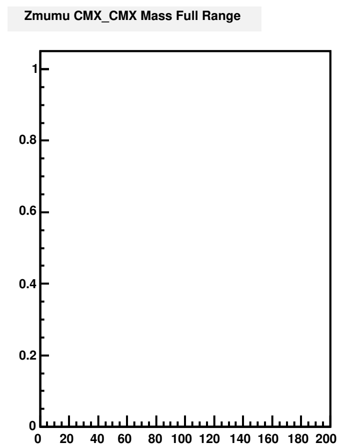
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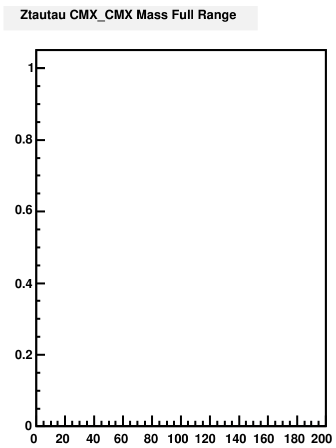
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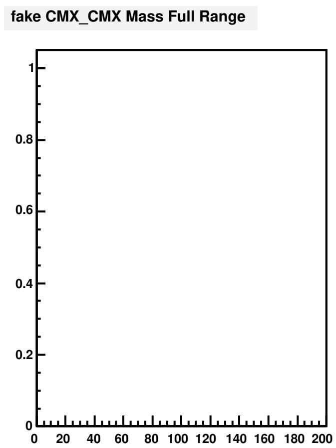
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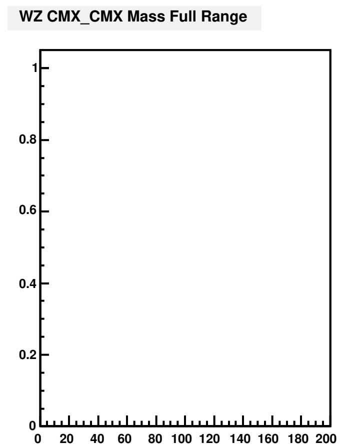
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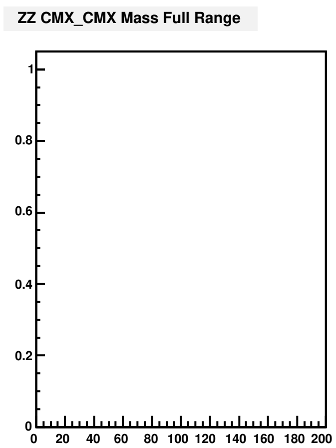
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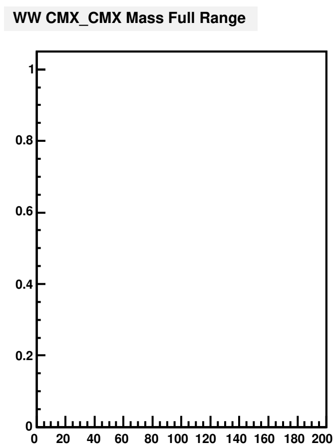
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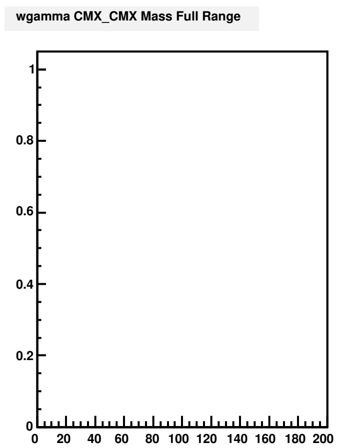
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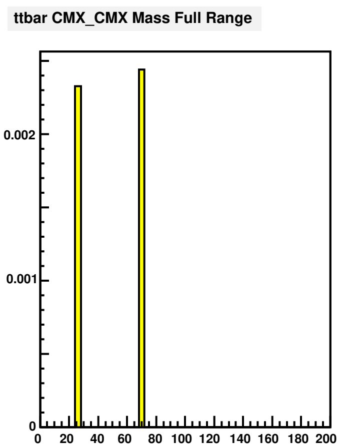
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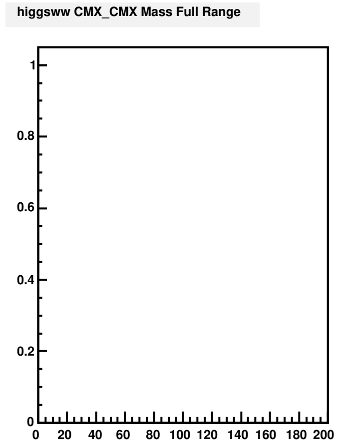
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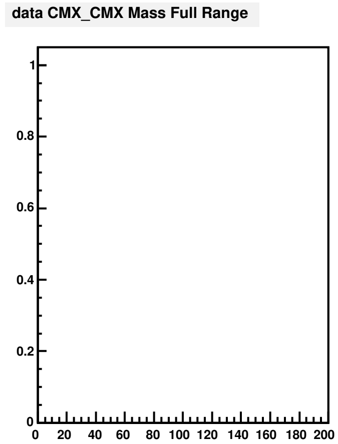
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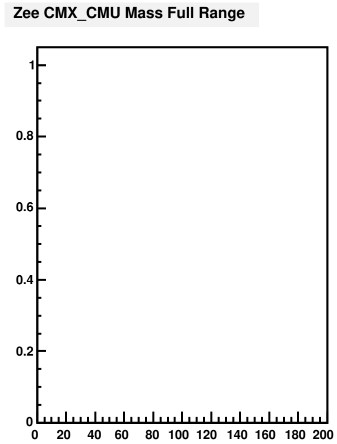
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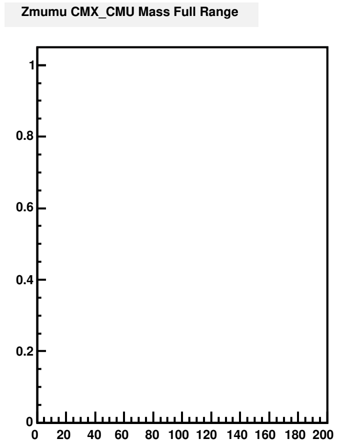
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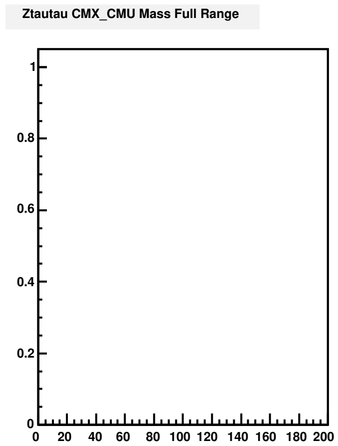
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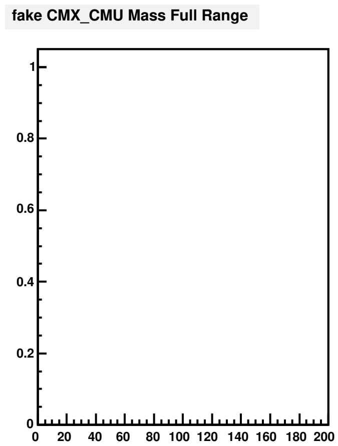
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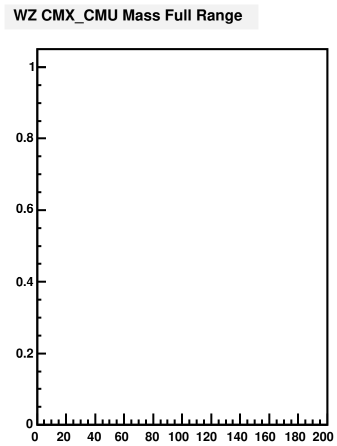
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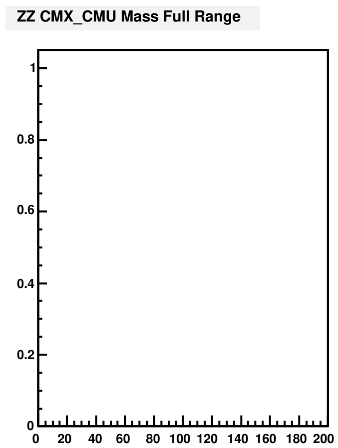
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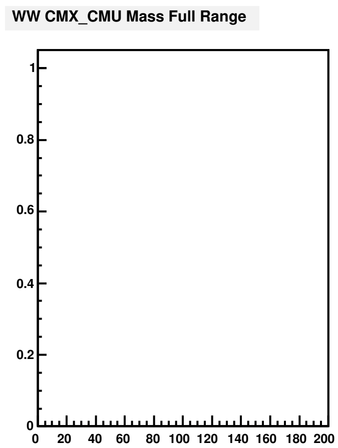
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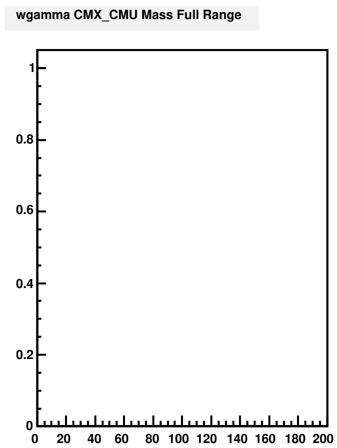
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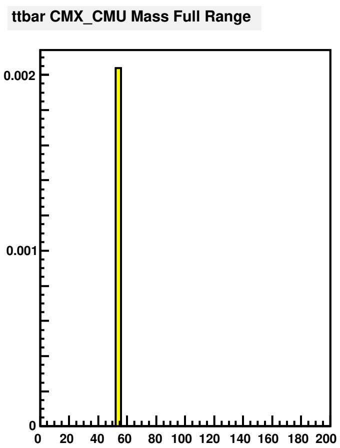
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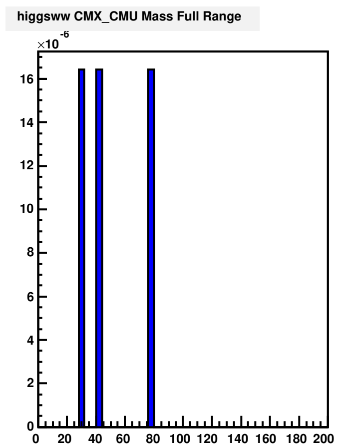
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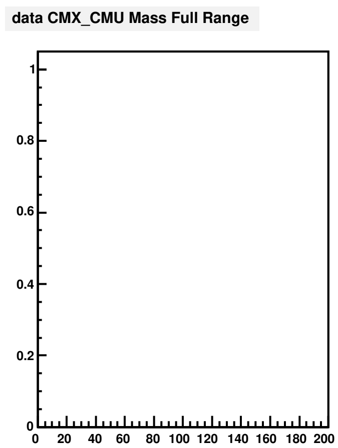
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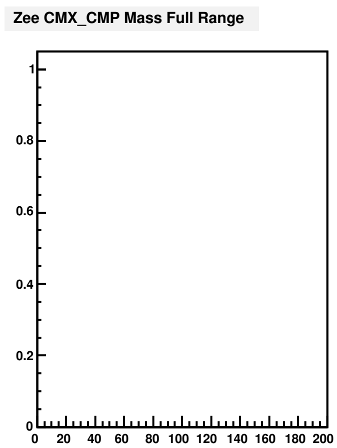
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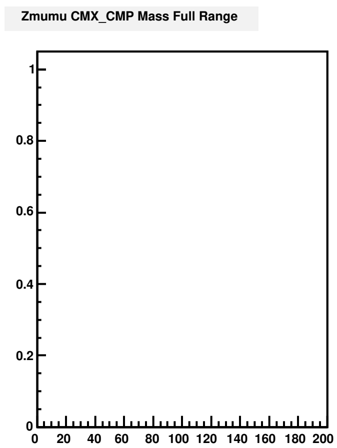
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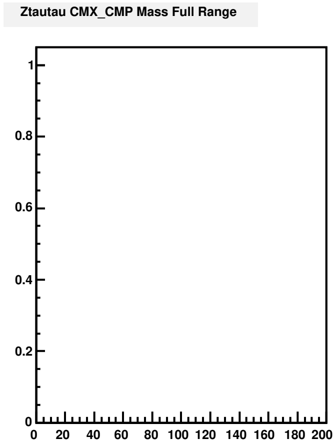
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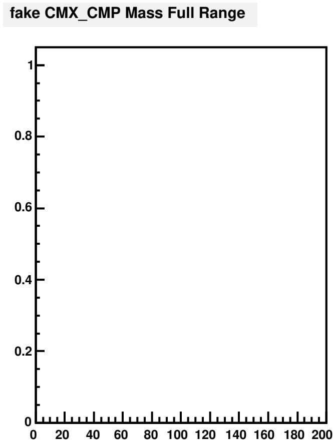
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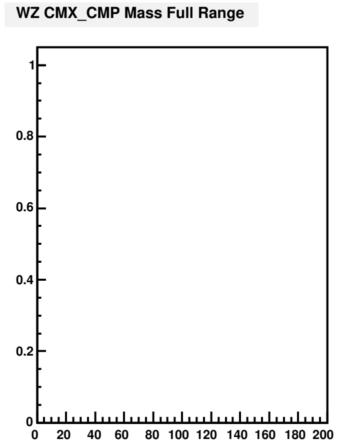
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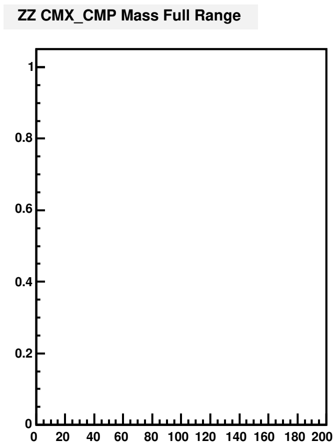
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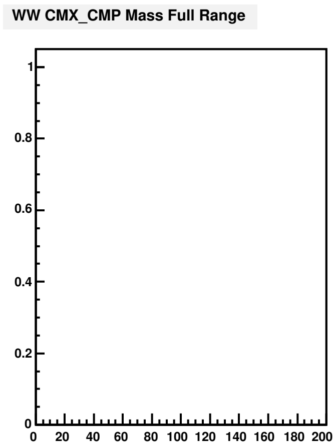
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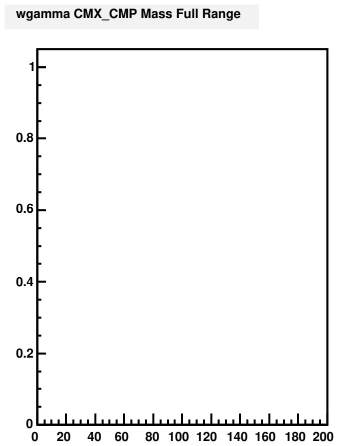
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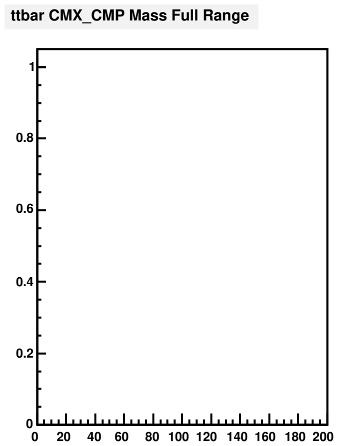
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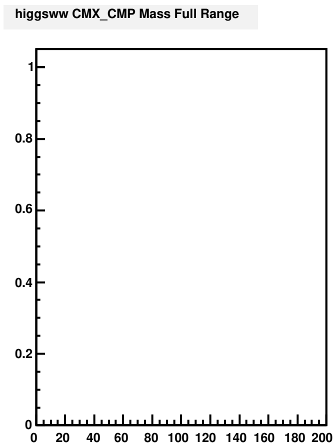
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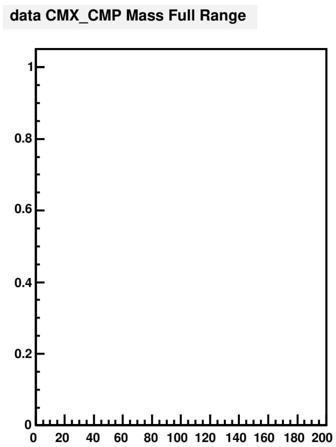
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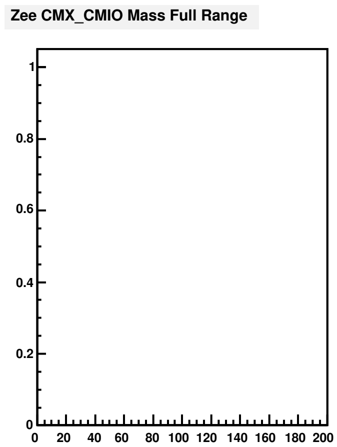
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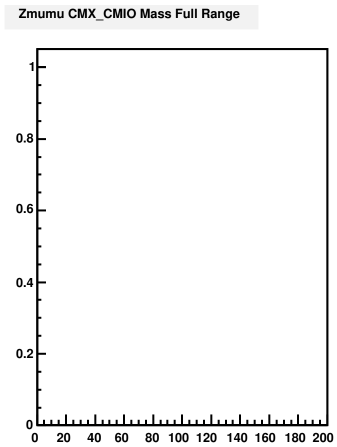
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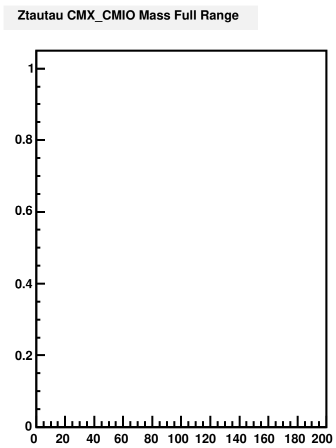
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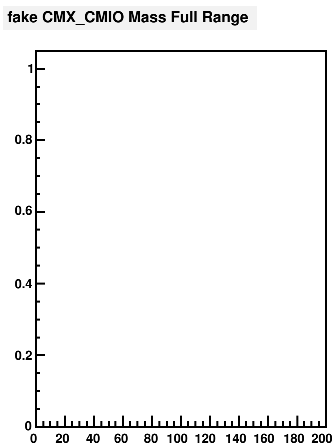
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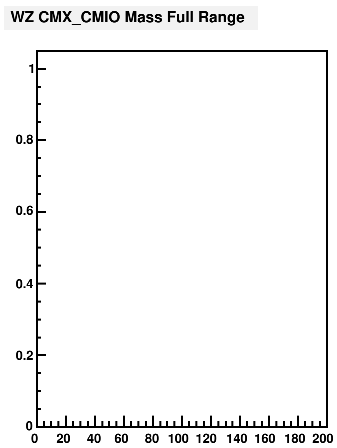
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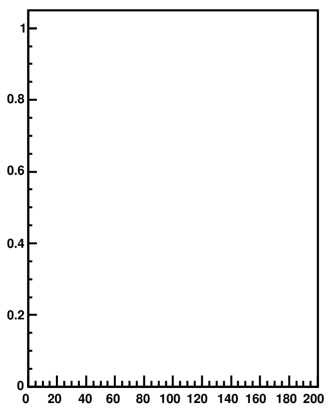


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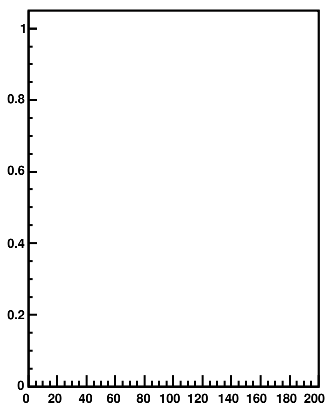


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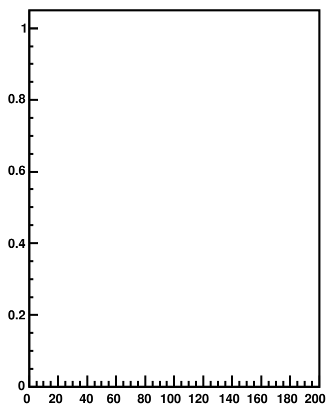


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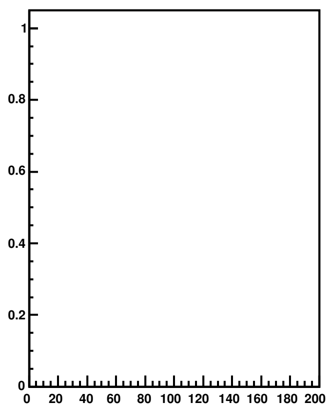


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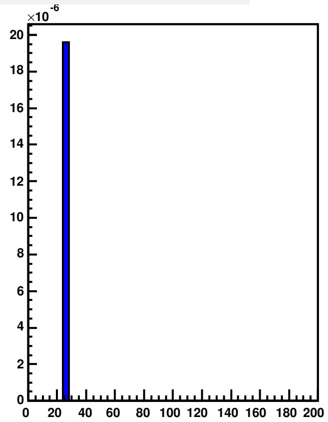


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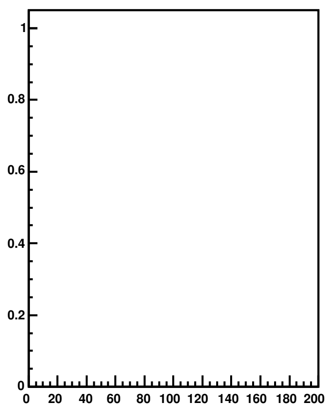


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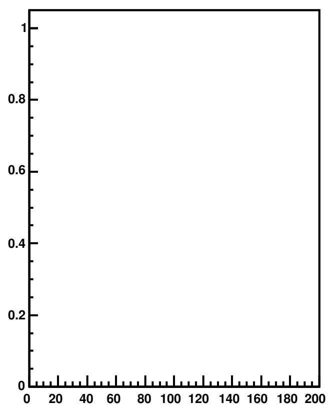


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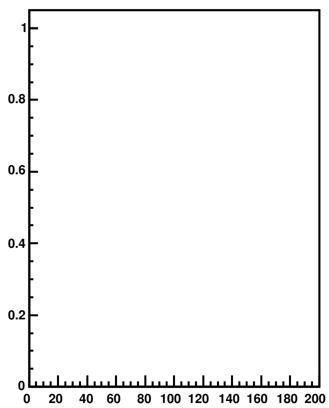


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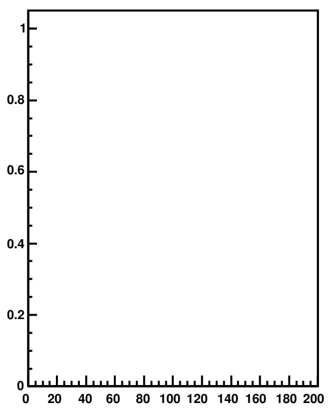


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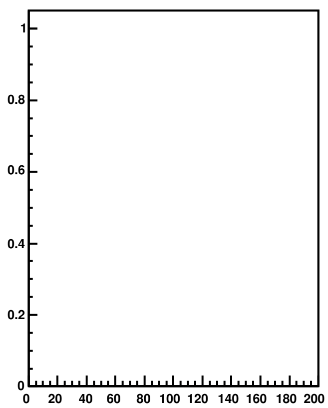


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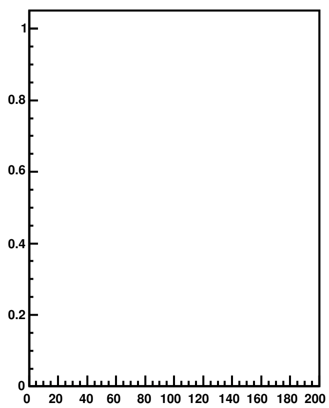


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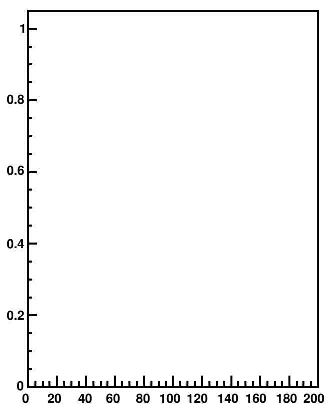


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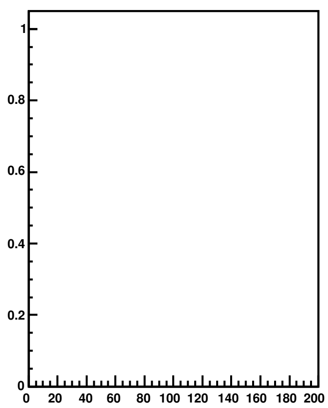


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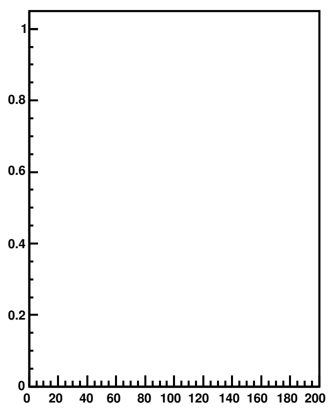


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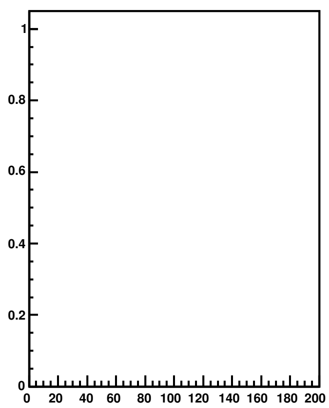

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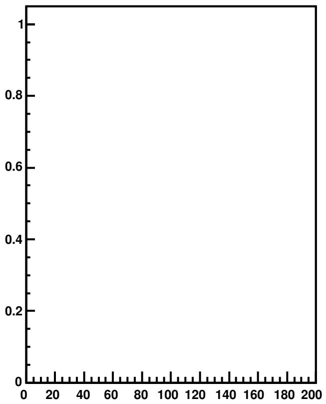


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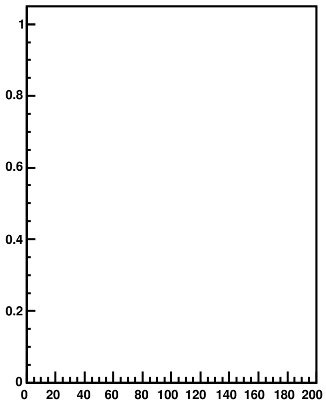


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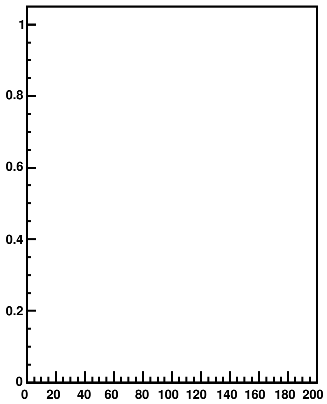


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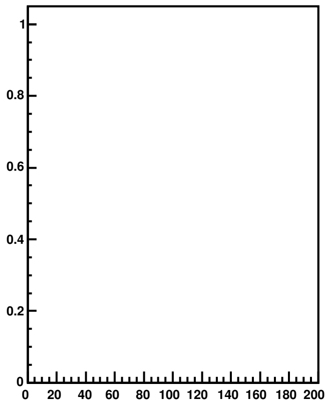


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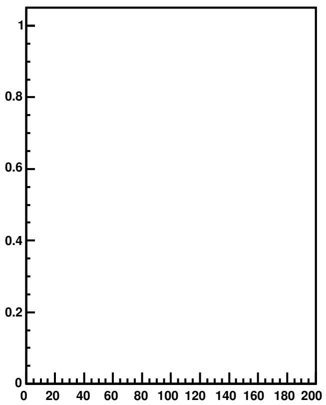


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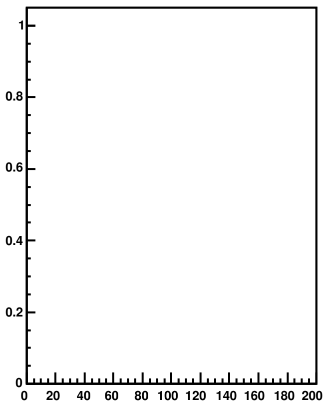


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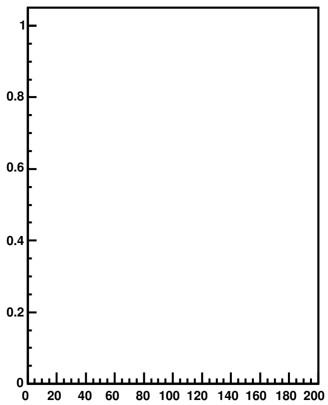


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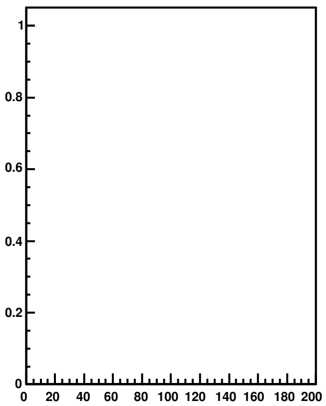


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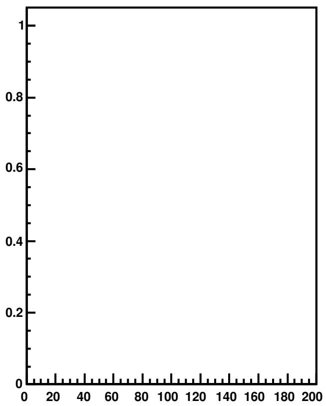


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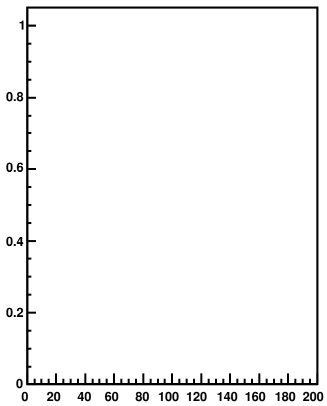


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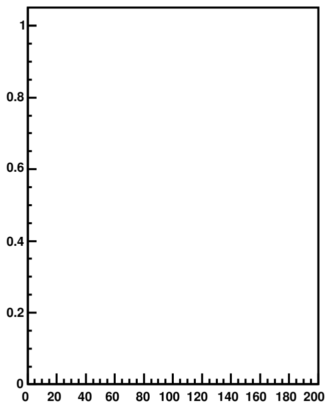


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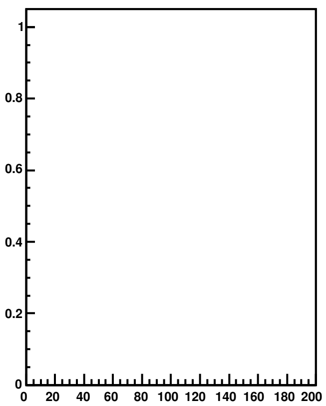


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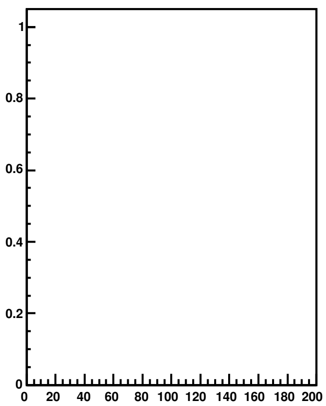


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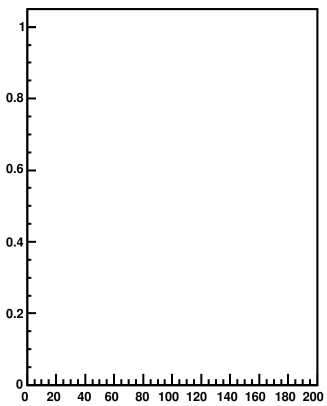


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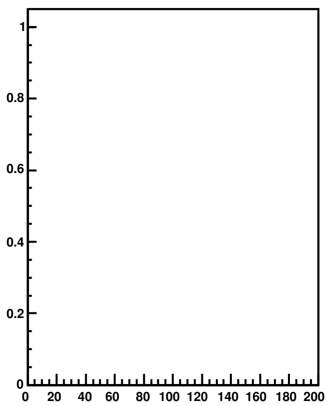

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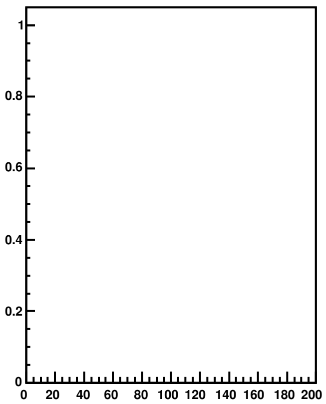


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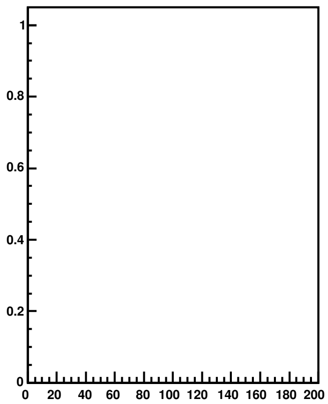


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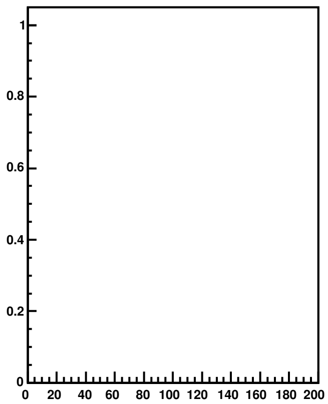


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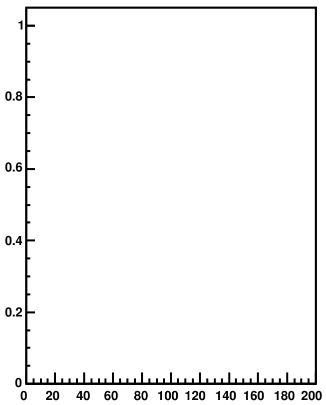


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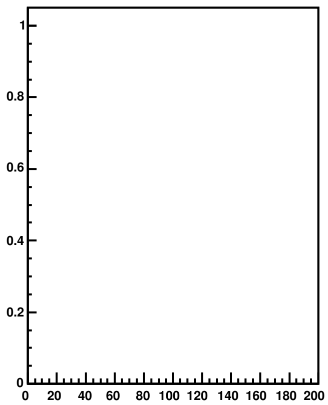


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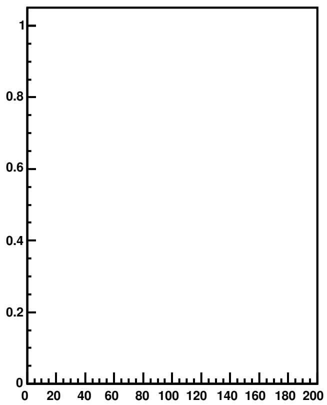


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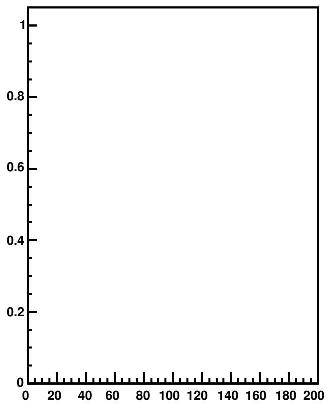
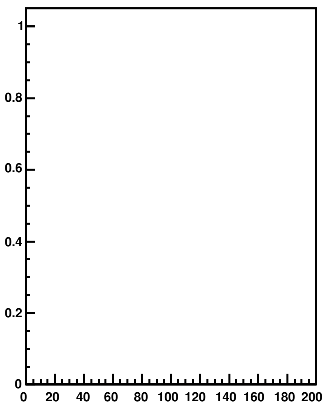



higgsww BMU_BMU Mass Full Range

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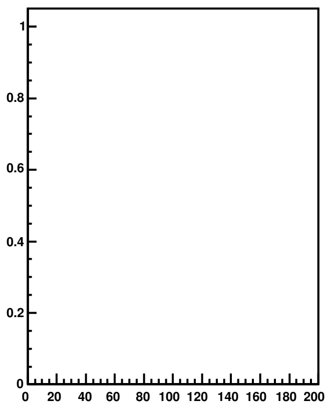


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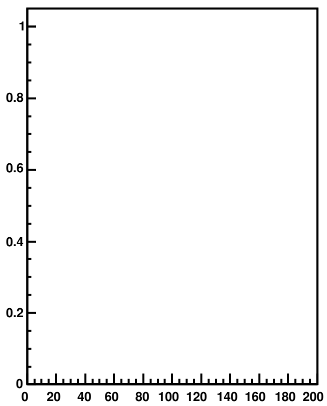


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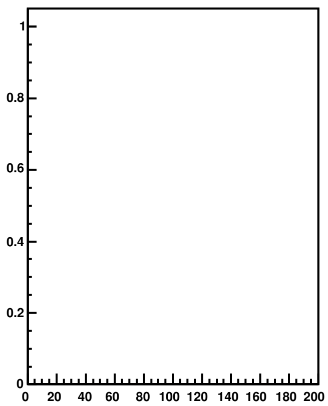


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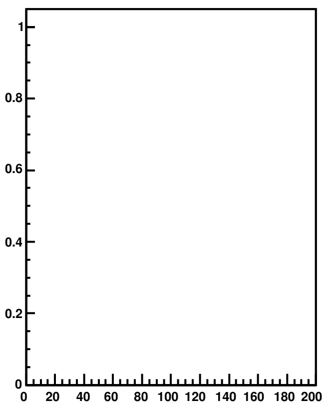


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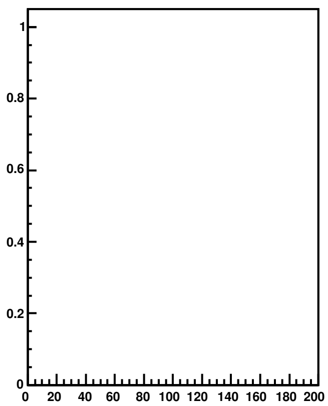


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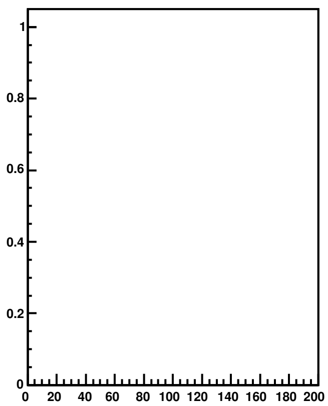

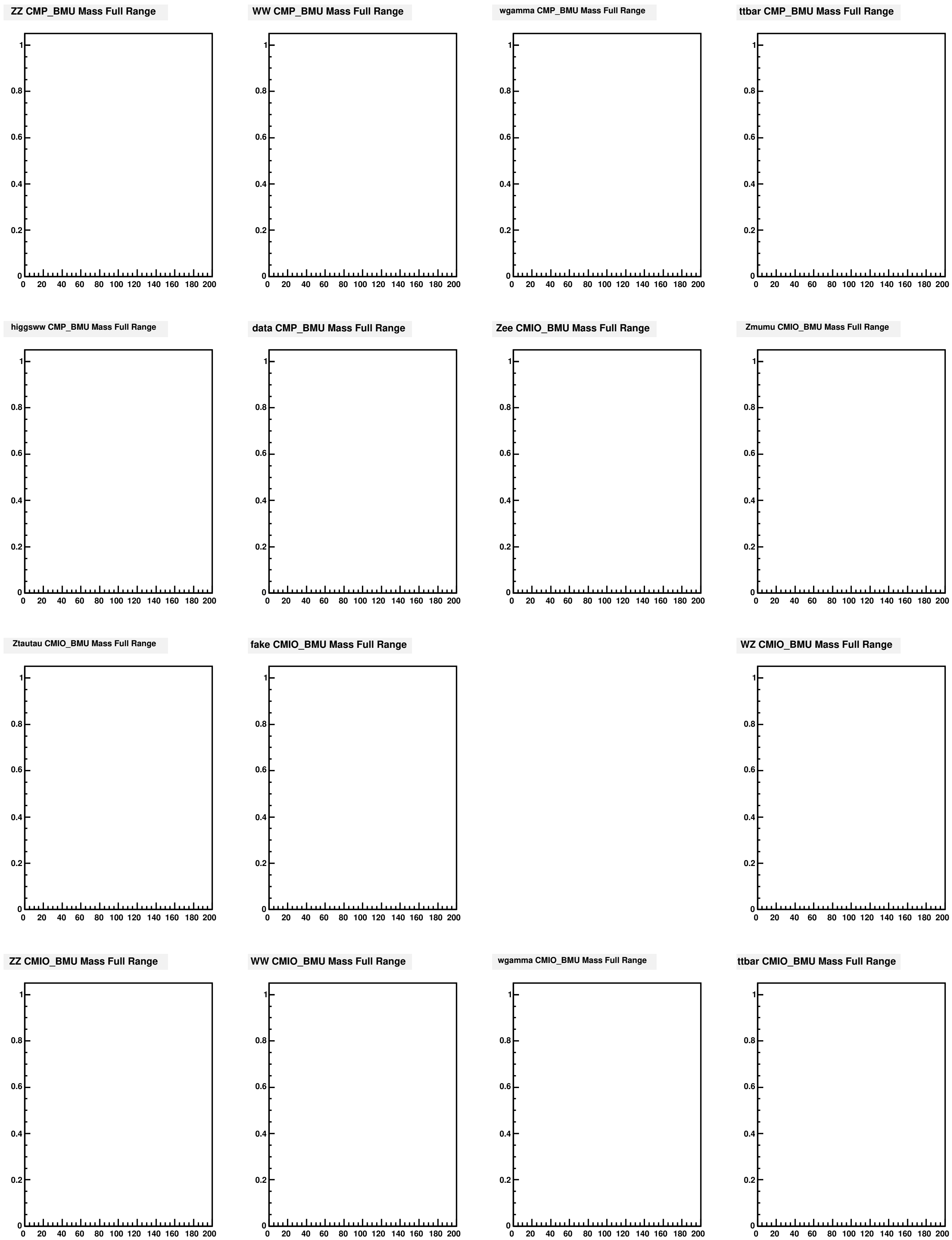
ZZ CMP_BMU Mass Full Range
WW CMP_BMU Mass Full Range
wgamma CMP_BMU Mass Full Range
ttbar CMP_BMU Mass Full Range
higgsww CMP_BMU Mass Full Range
data CMP_BMU Mass Full Range
Zee CMIO_BMU Mass Full Range
Zmumu CMIO_BMU Mass Full Range
Ztautau CMIO_BMU Mass Full Range
fake CMIO_BMU Mass Full Range
WZ CMIO_BMU Mass Full Range
ZZ CMIO_BMU Mass Full Range
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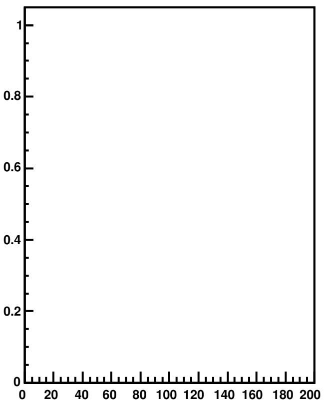


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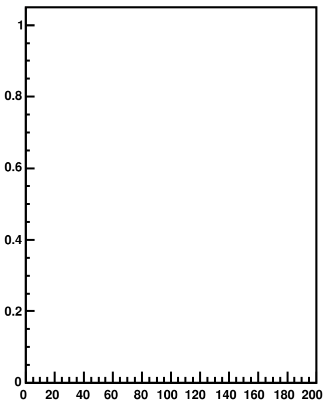


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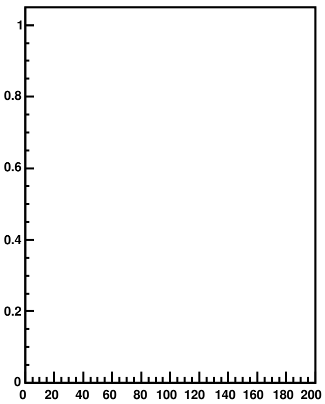


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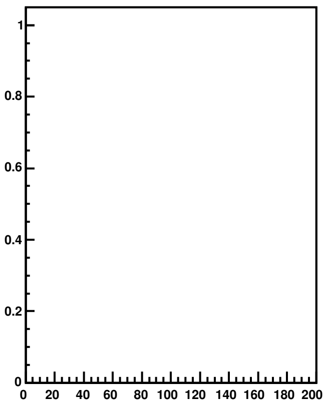


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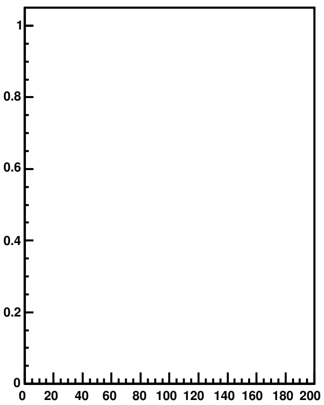


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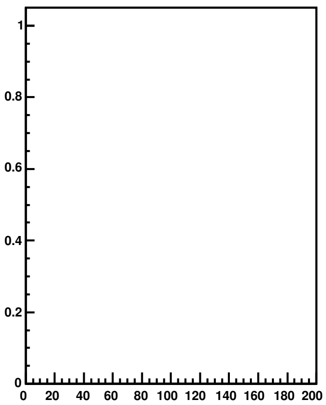


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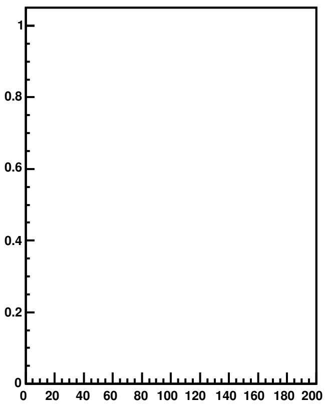


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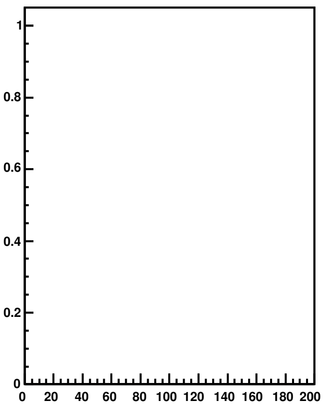


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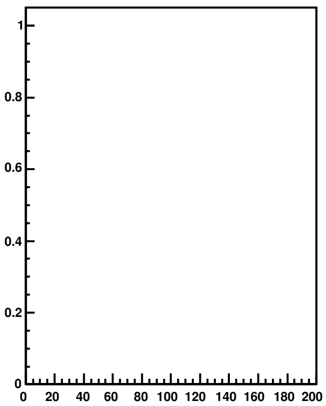


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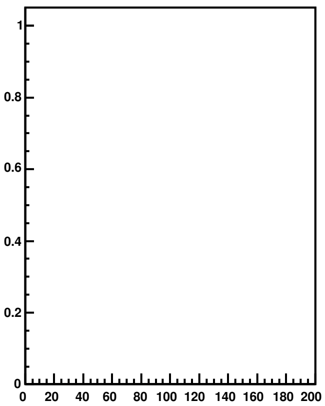


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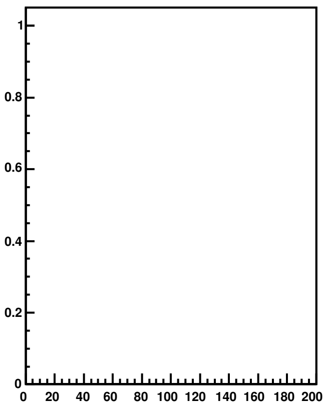
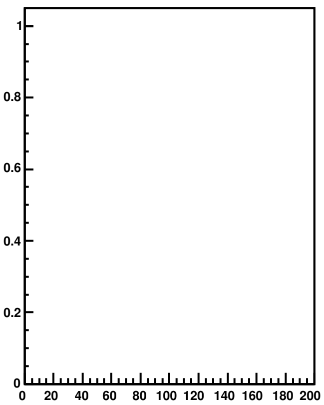



higgsww CMU_BMU Mass Full Range

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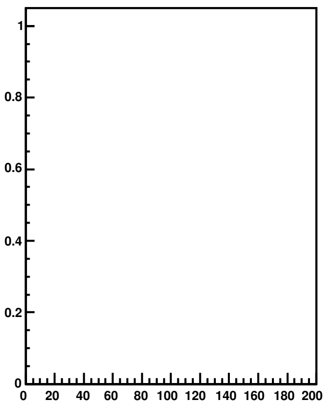


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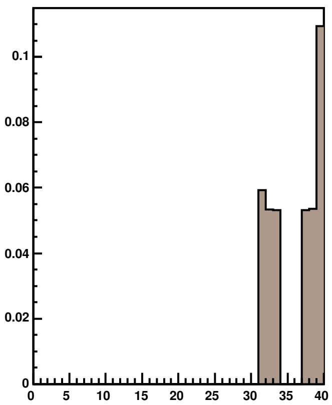


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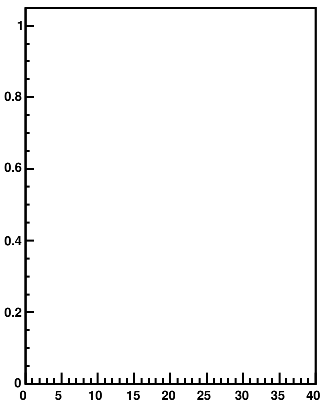

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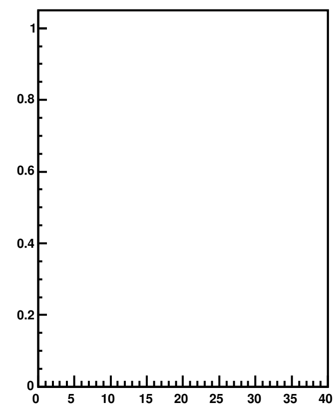


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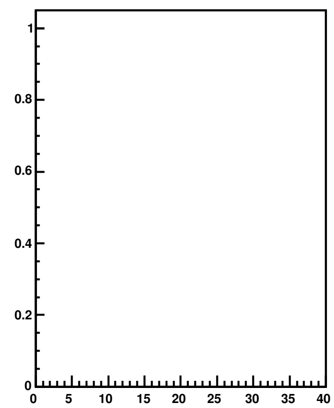


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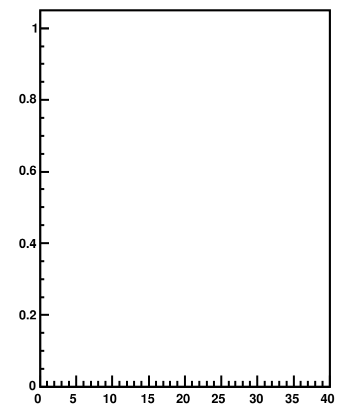


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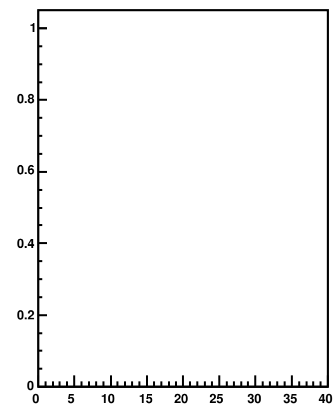


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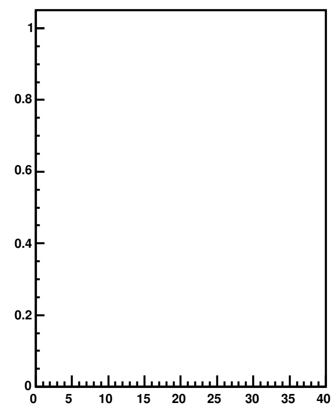


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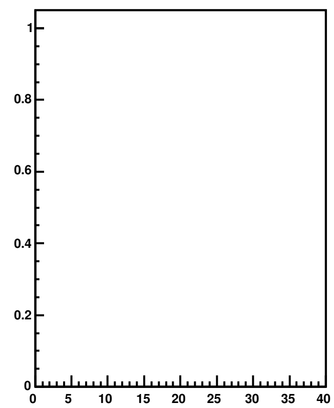


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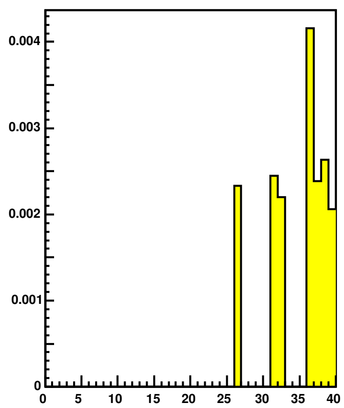
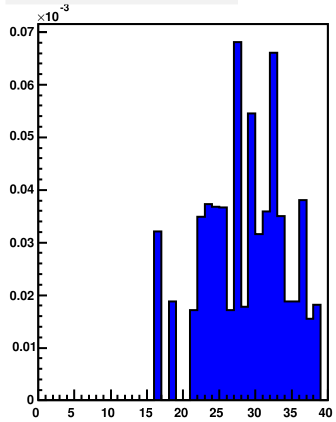



higgsww Mass 0-40 Range

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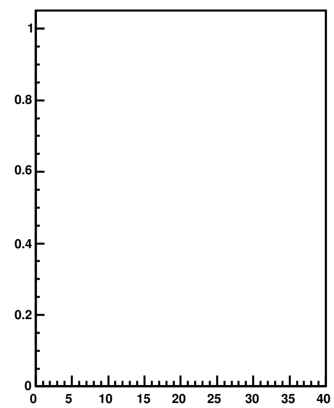


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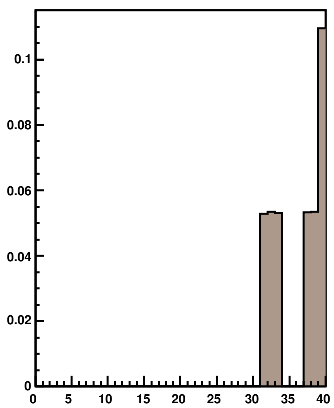


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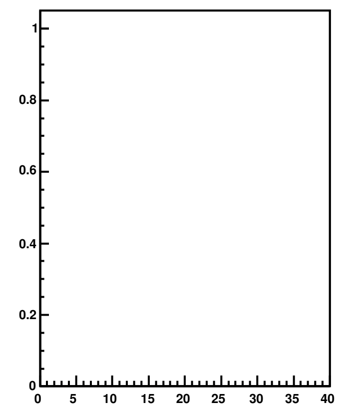


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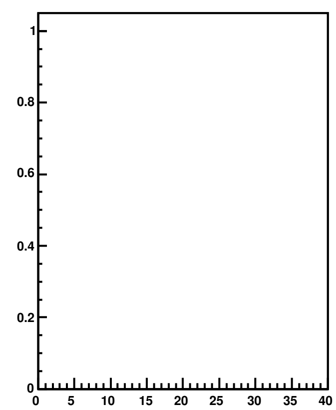


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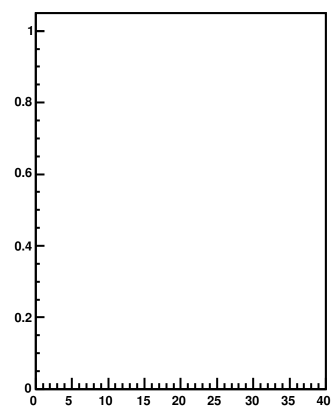


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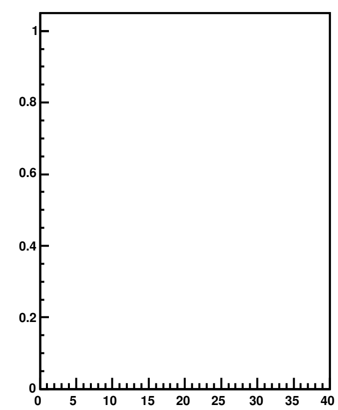

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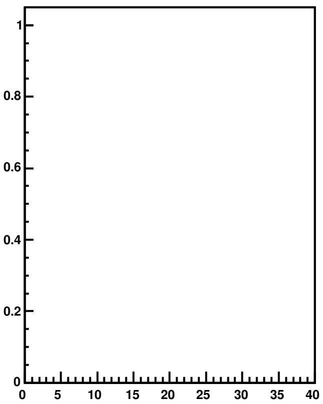

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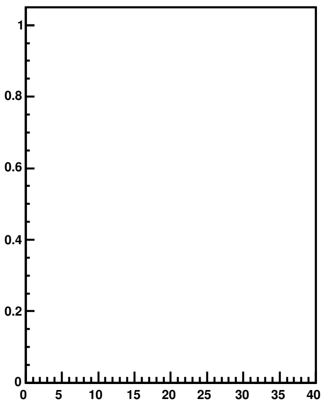

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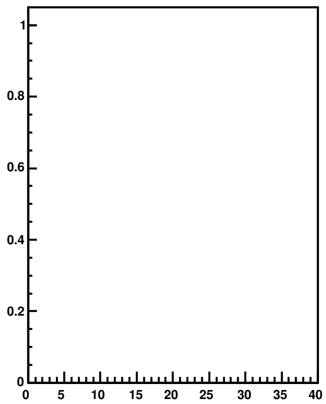

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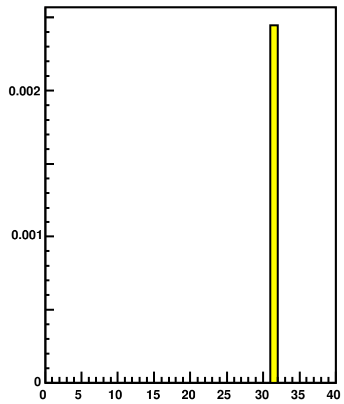

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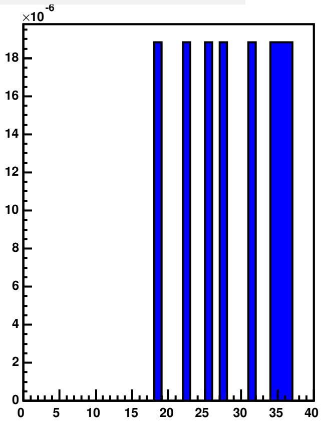

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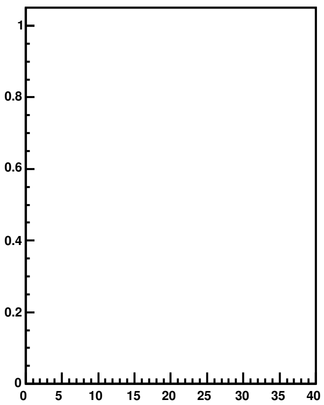

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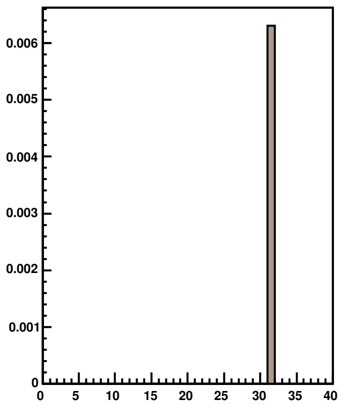

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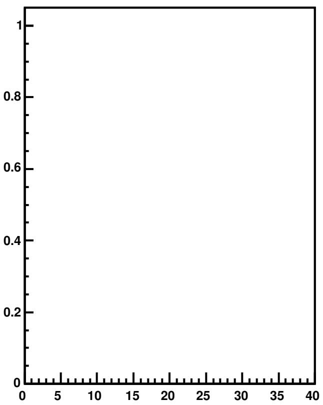

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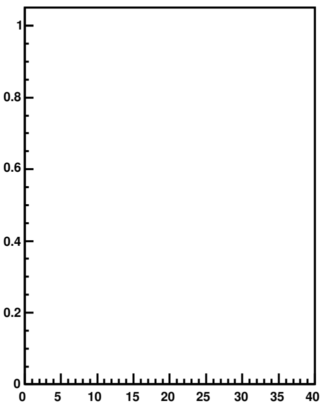

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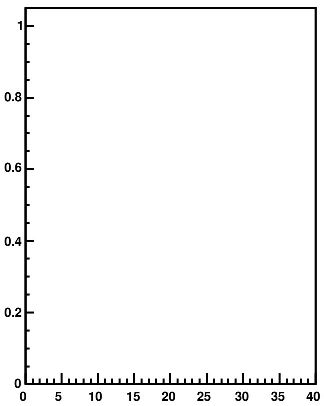
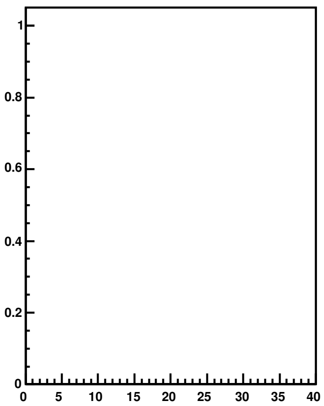


### WZ TCE_PHX Mass 0-40 Range


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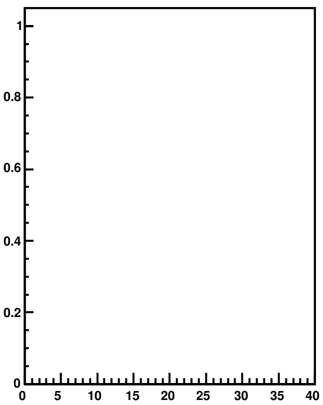

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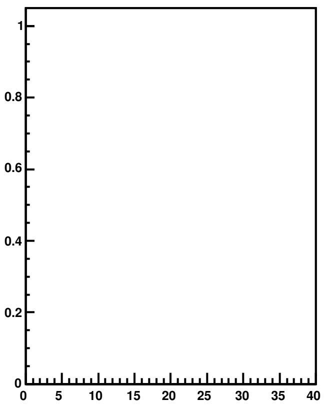

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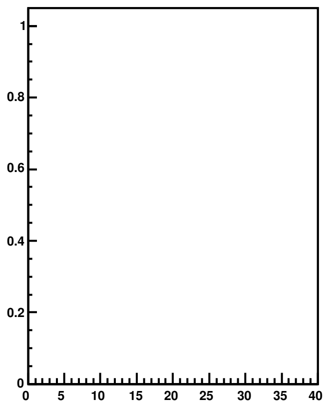

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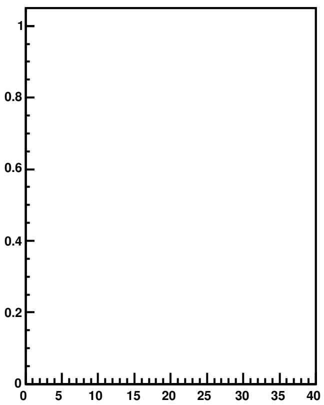
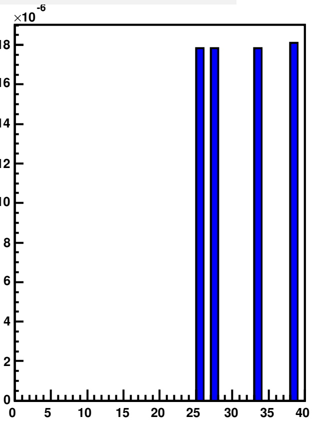


higgsww TCE_PHX Mass 0-40 Range



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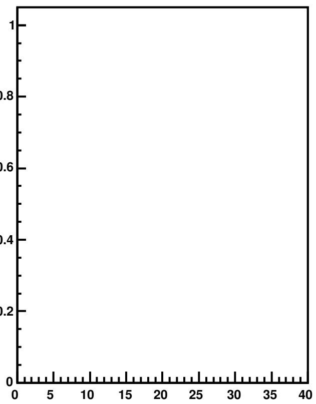

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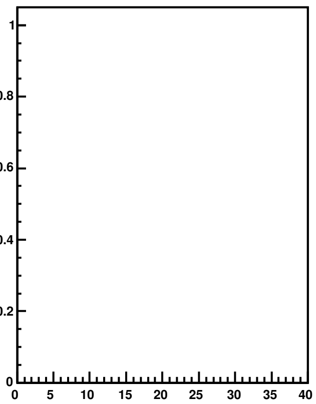

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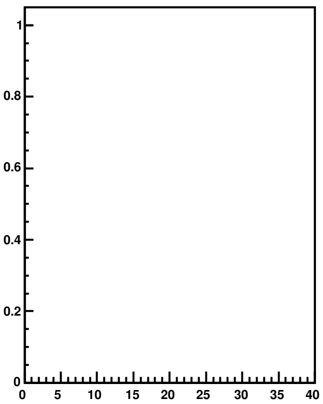

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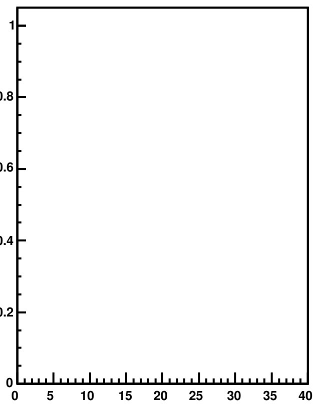

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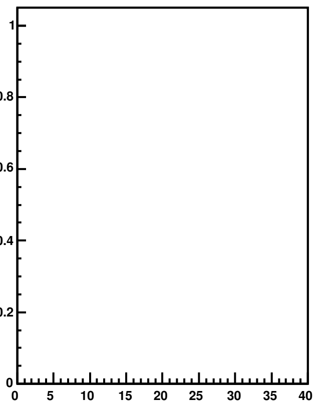

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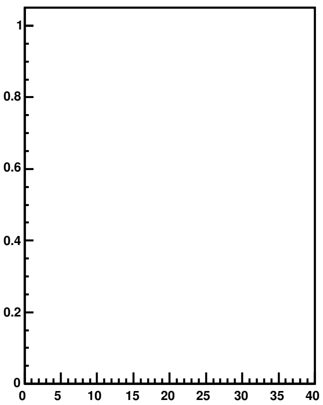

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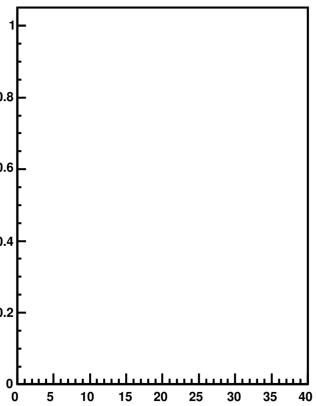
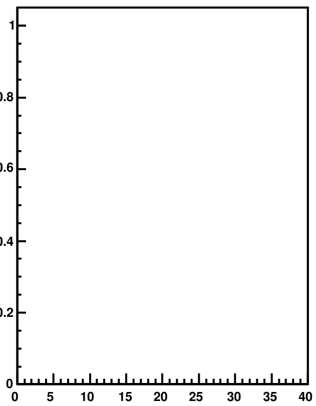


WW PHX_PHX Mass 0-40 Range



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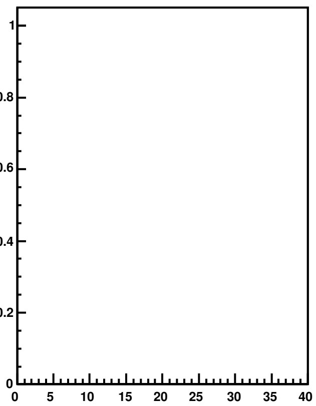

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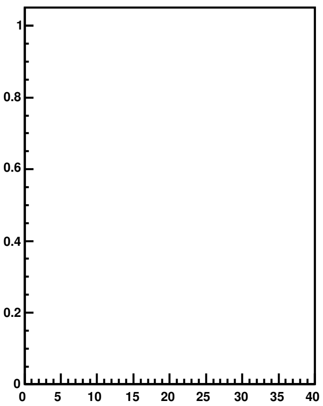
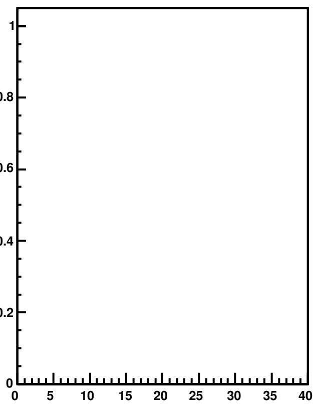


higgsww PHX_PHX Mass 0-40 Range



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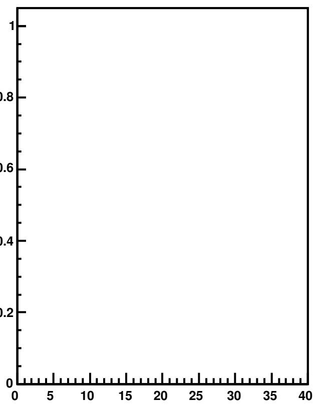
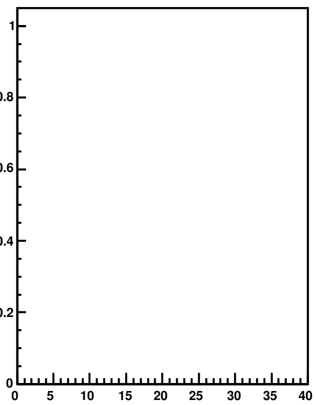


Zee CMUP_CMUP Mass 0-40 Range



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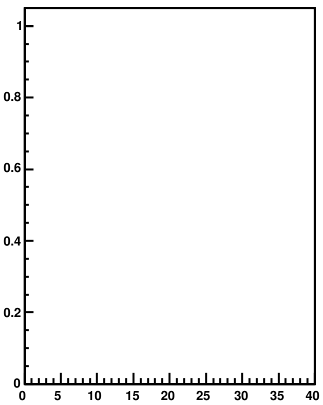

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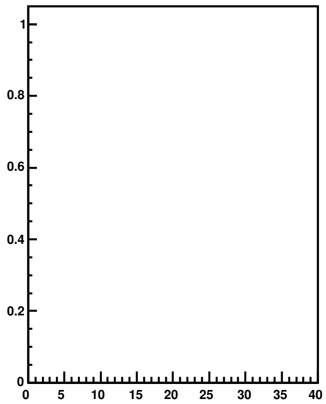

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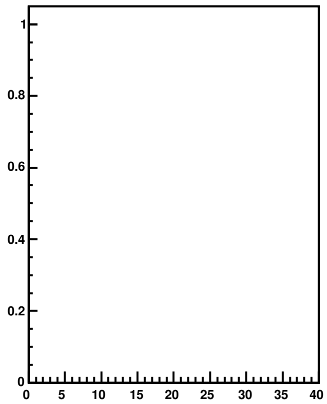

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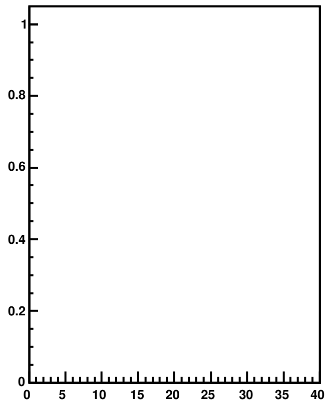

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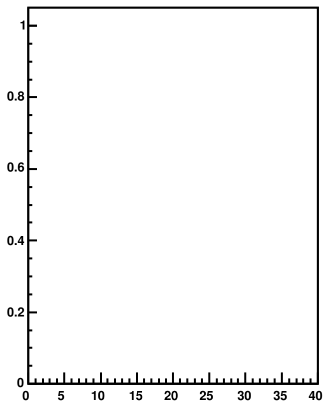

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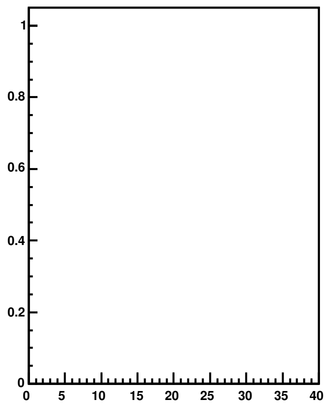

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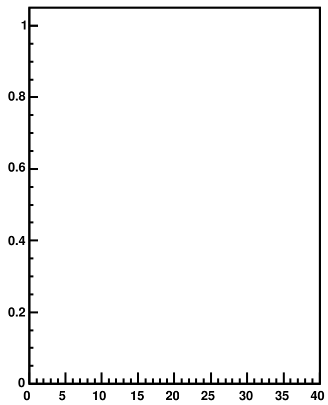

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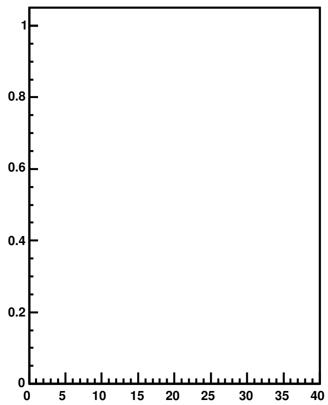

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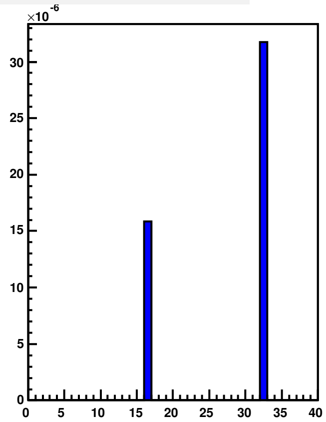

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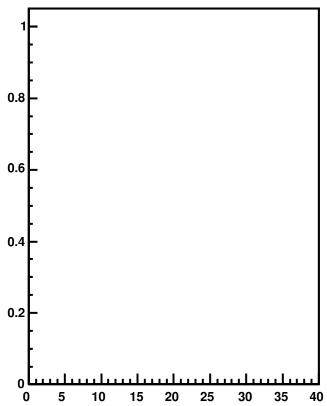

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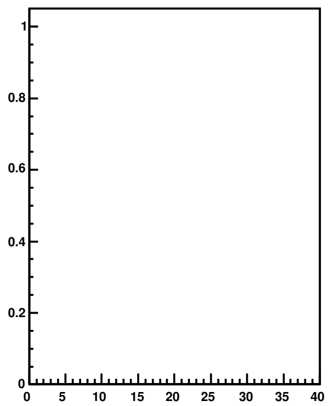

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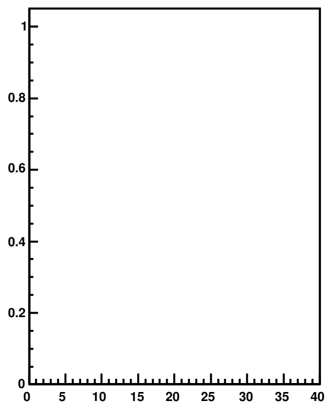

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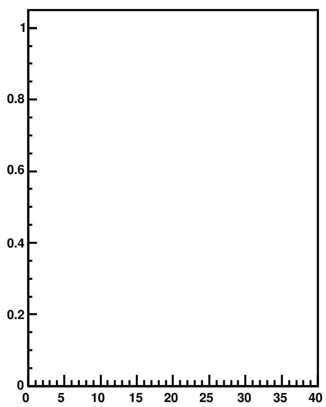

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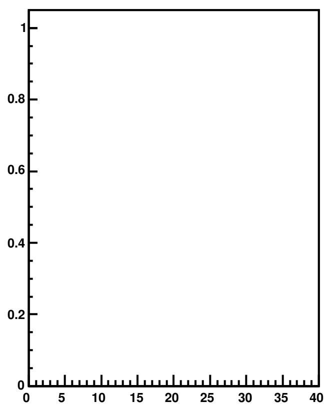

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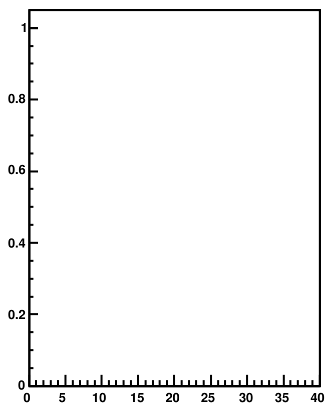

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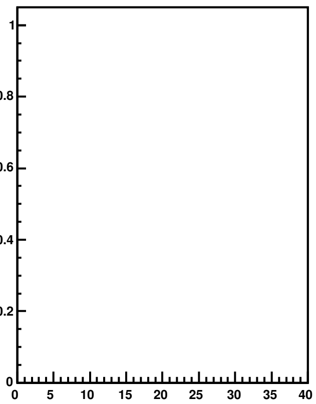


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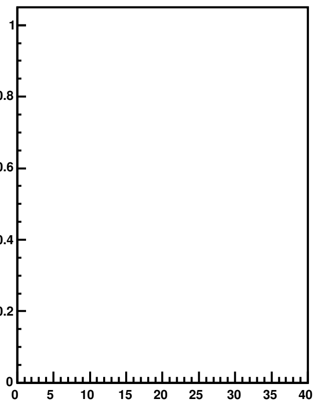


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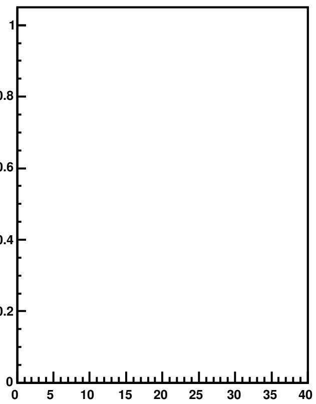


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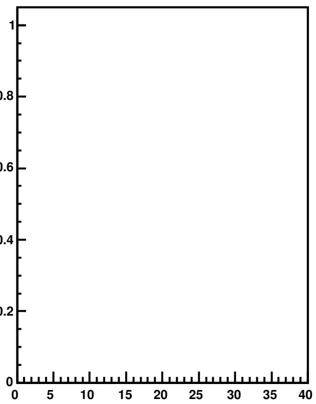


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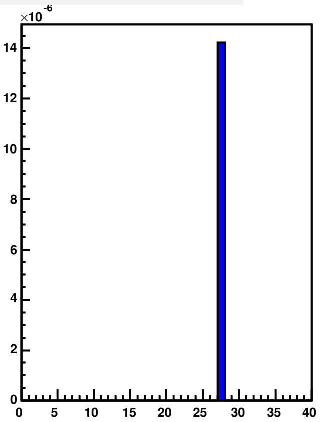


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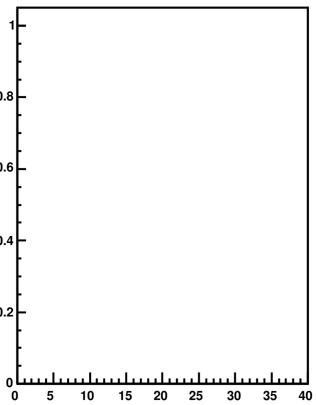


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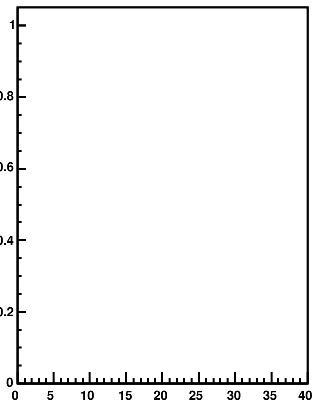


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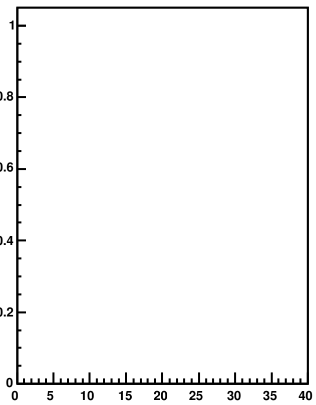


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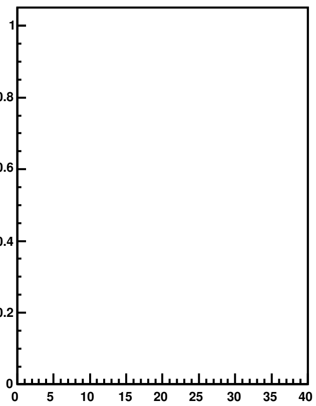


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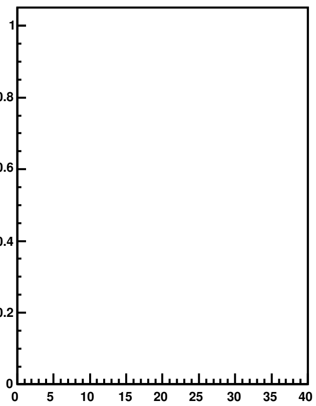


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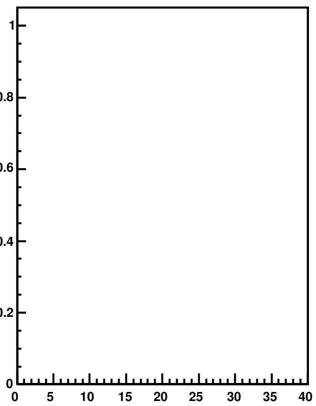


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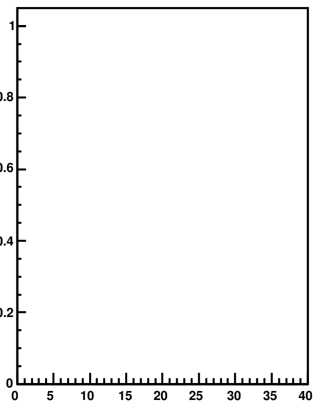


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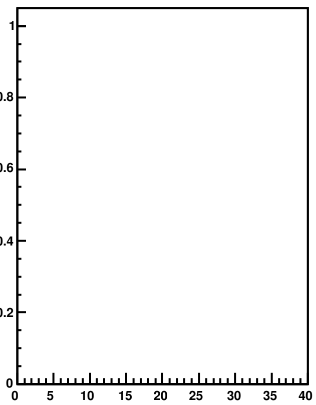


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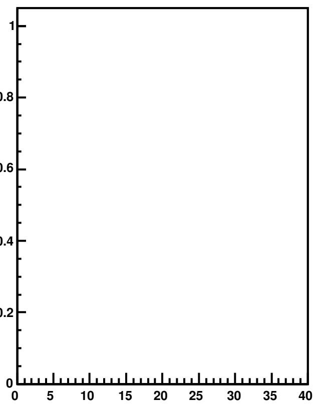


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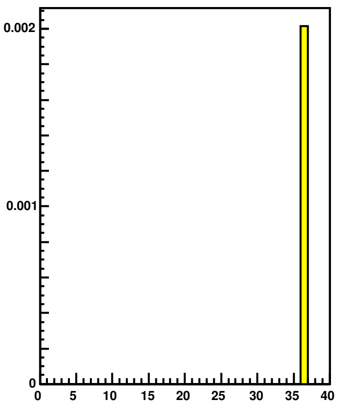

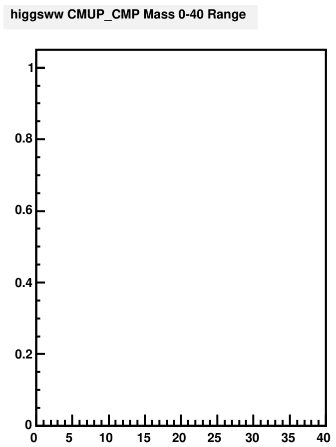
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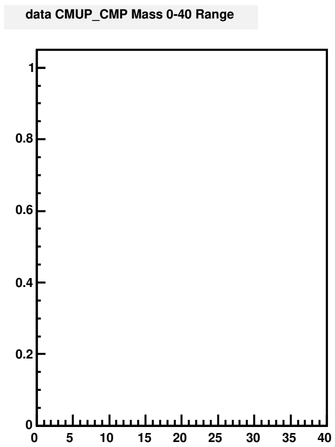
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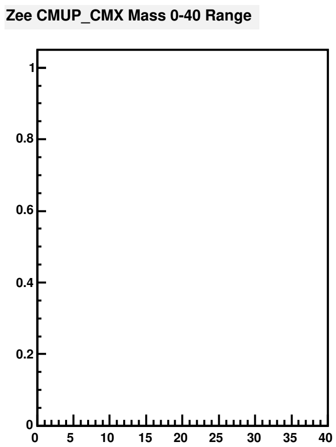
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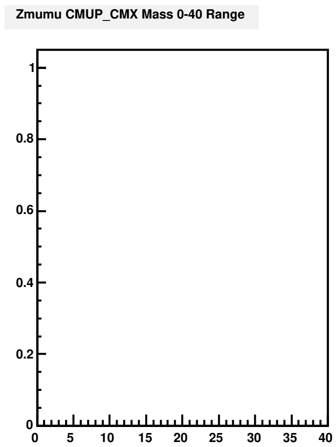
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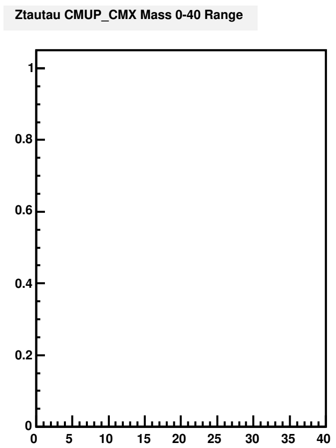
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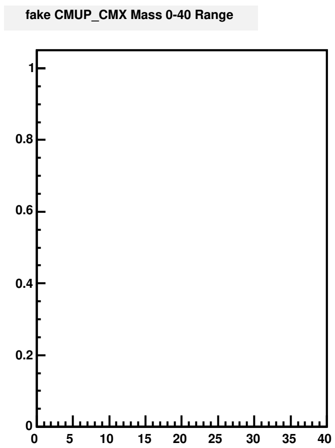
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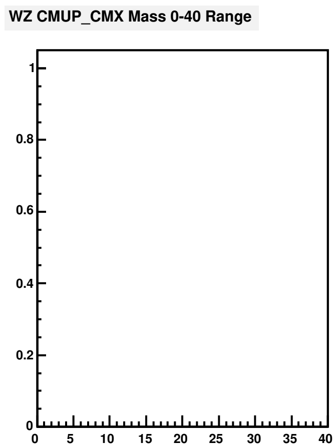
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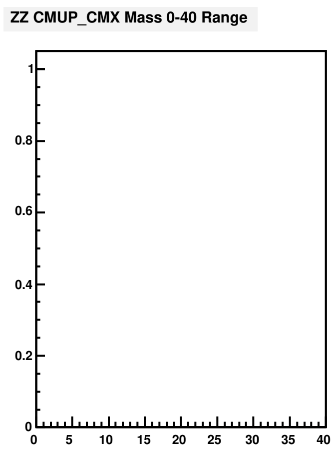
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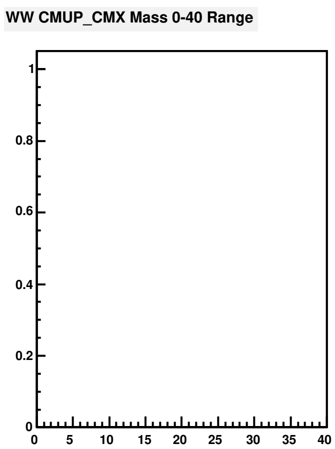
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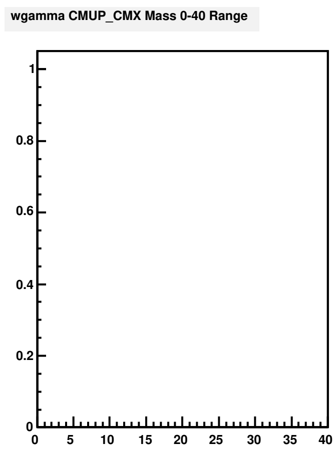
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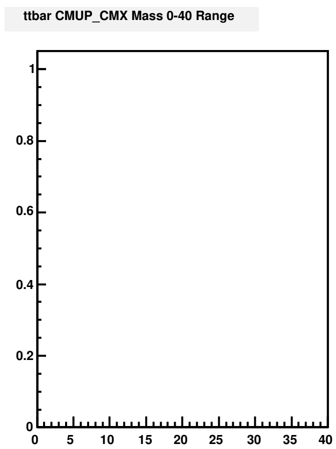
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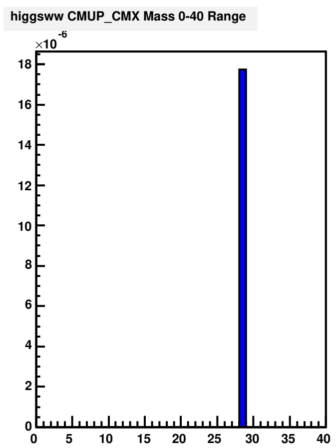
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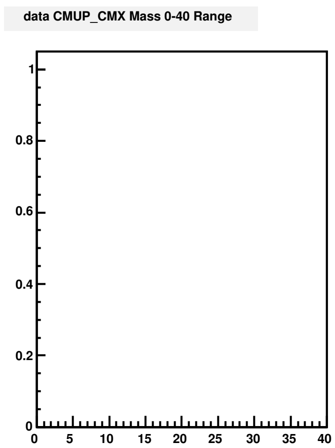
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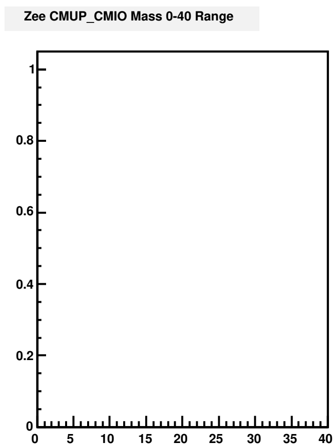
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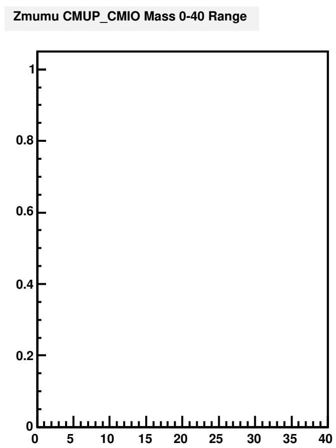
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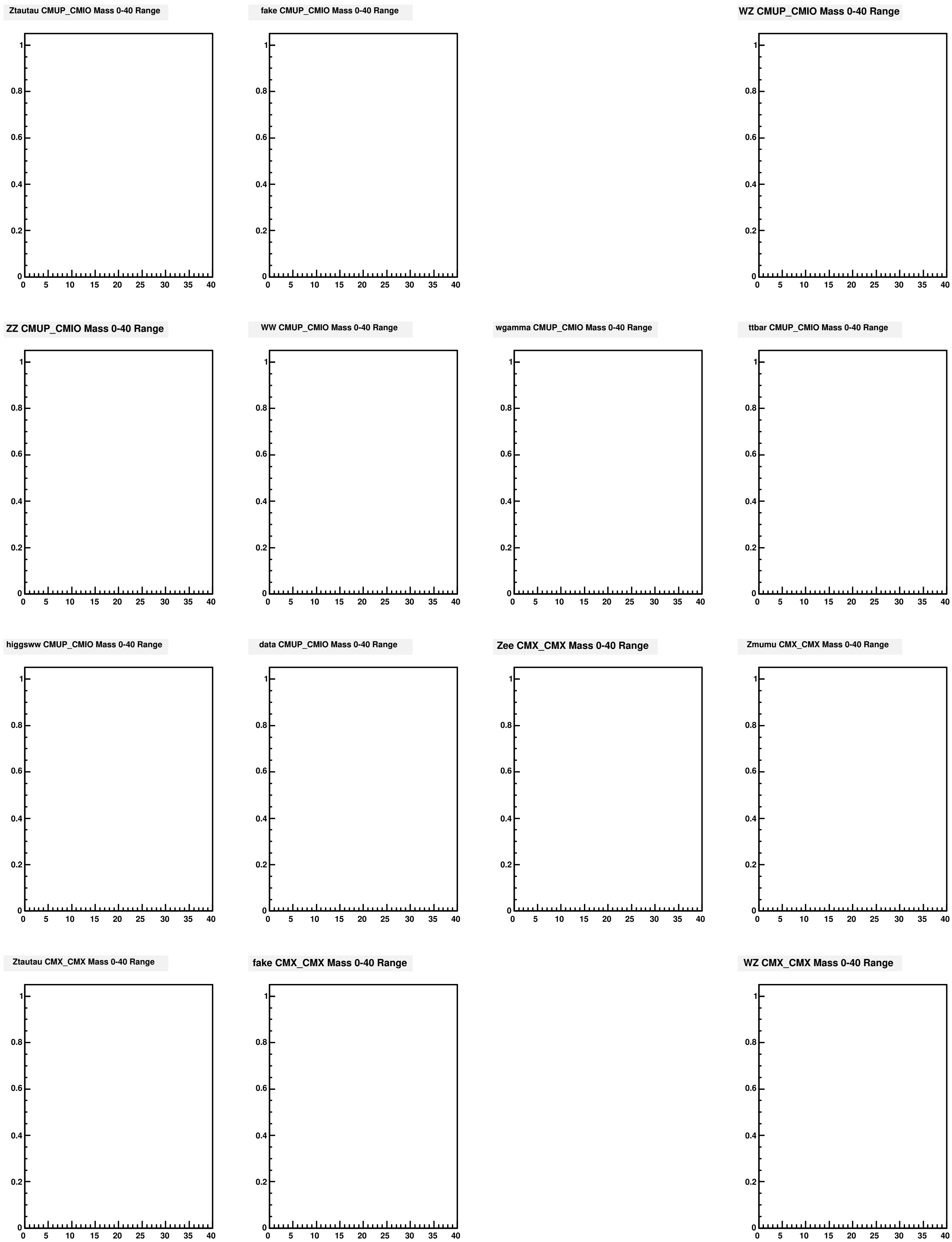

Ztautau CMUP_CMIO Mass 0-40 Range
fake CMUP_CMIO Mass 0-40 Range
WZ CMUP_CMIO Mass 0-40 Range
ZZ CMUP_CMIO Mass 0-40 Range
WW CMUP_CMIO Mass 0-40 Range
wgamma CMUP_CMIO Mass 0-40 Range
ttbar CMUP_CMIO Mass 0-40 Range
higgsww CMUP_CMIO Mass 0-40 Range
data CMUP_CMIO Mass 0-40 Range
Zee CMX_CMX Mass 0-40 Range
Zmumu CMX_CMX Mass 0-40 Range
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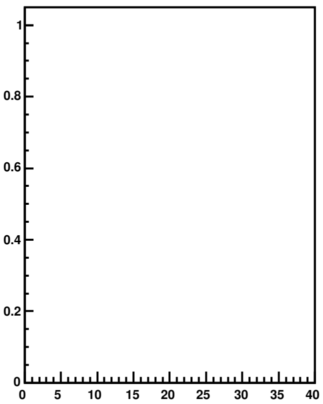


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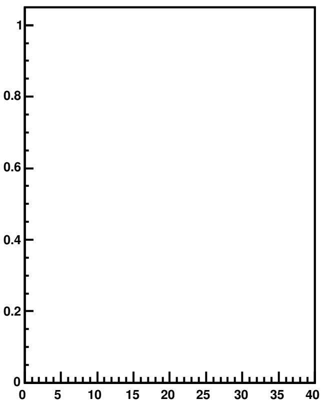


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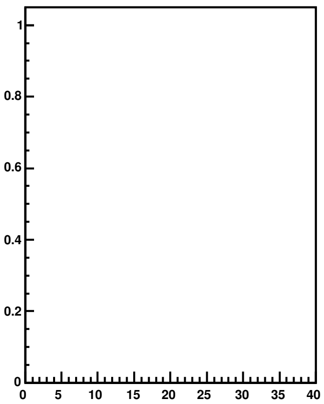


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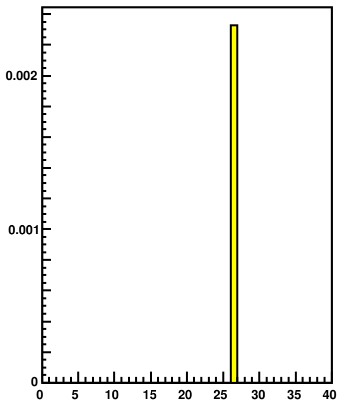


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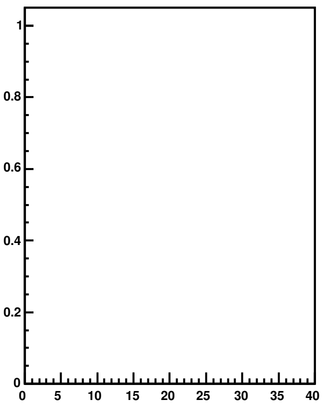


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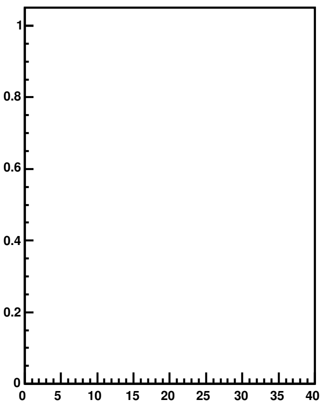


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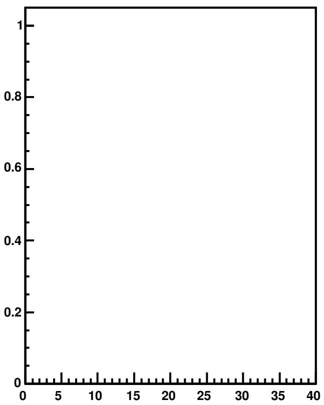


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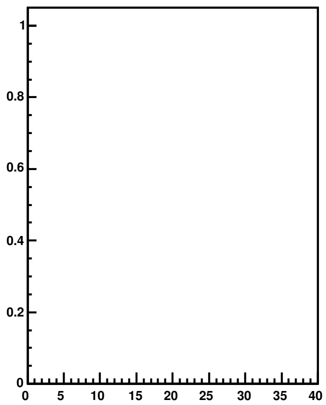


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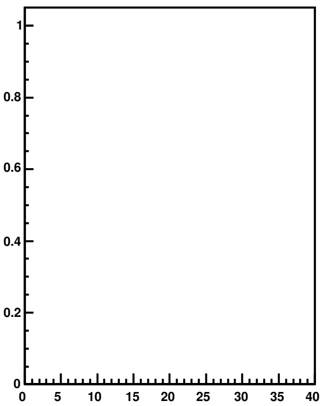


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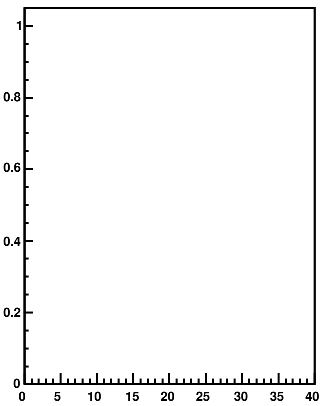


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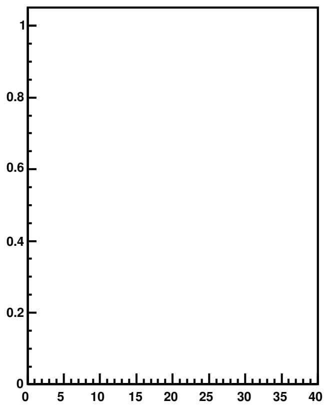


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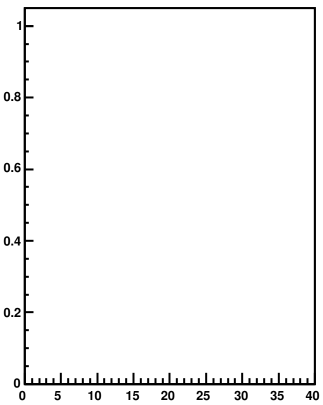


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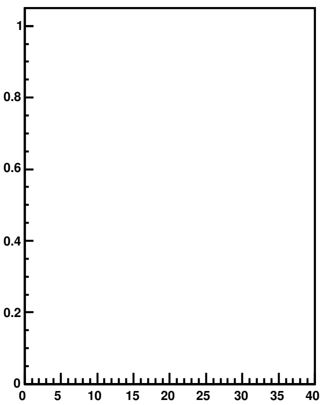


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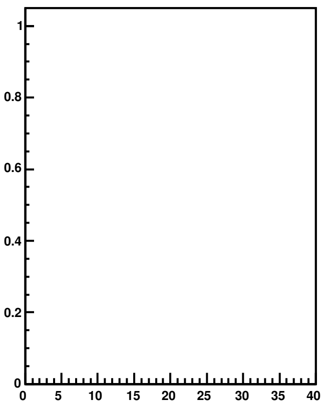


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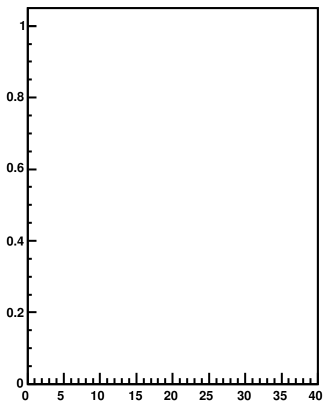

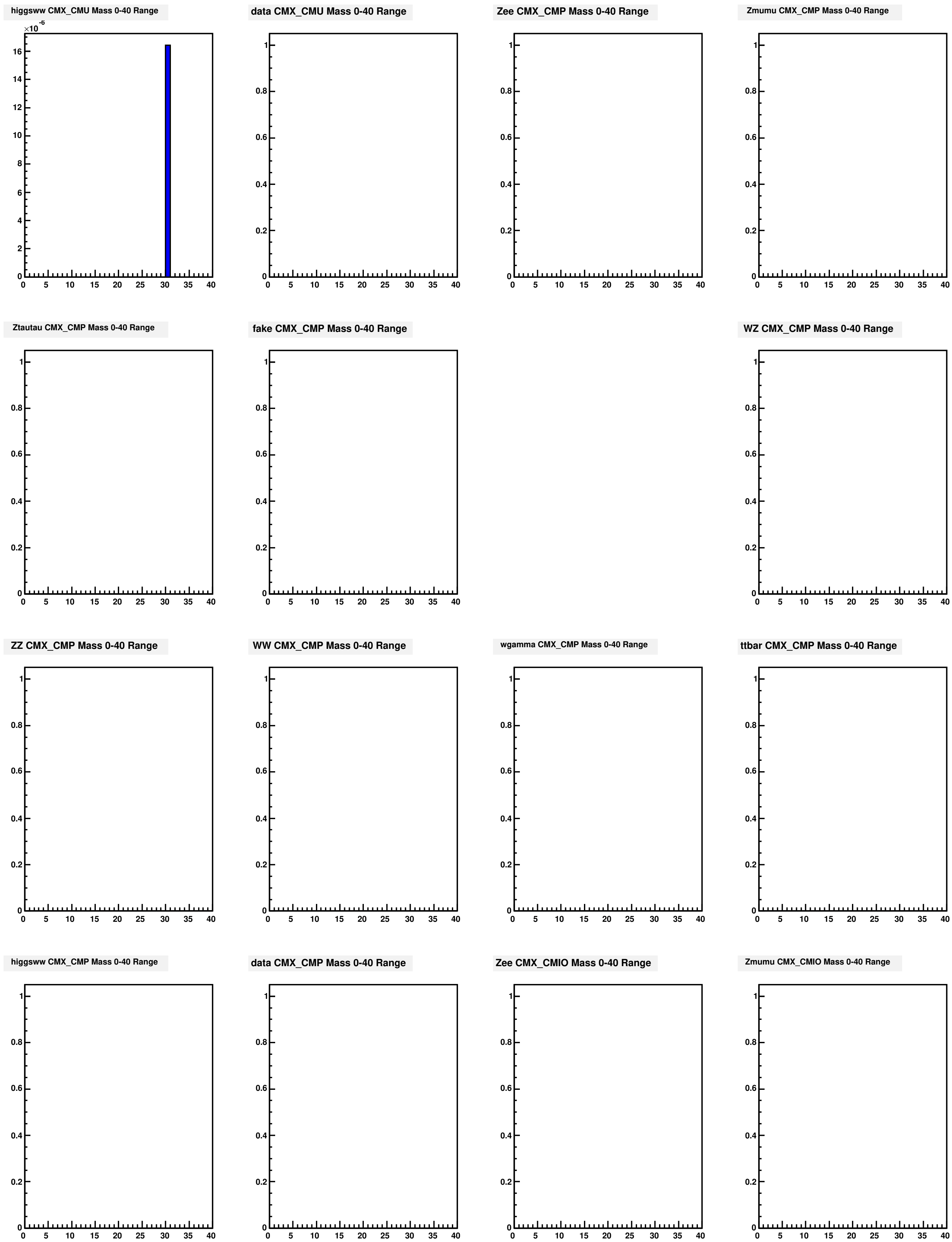

higgsww CMX_CMU Mass 0-40 Range
data CMX_CMU Mass 0-40 Range
Zee CMX_CMP Mass 0-40 Range
Zmumu CMX_CMP Mass 0-40 Range
Ztautau CMX_CMP Mass 0-40 Range
fake CMX_CMP Mass 0-40 Range
WZ CMX_CMP Mass 0-40 Range
ZZ CMX_CMP Mass 0-40 Range
WW CMX_CMP Mass 0-40 Range
wgamma CMX_CMP Mass 0-40 Range
ttbar CMX_CMP Mass 0-40 Range
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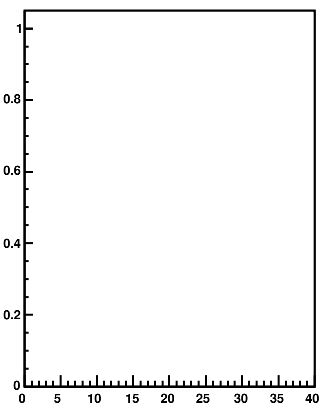


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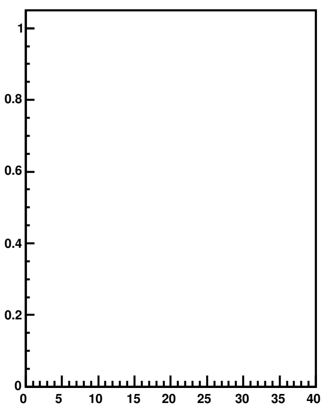
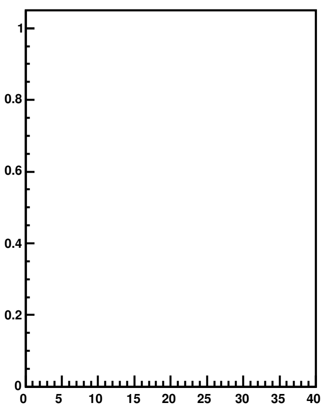



WZ CMX_CMIO Mass 0-40 Range

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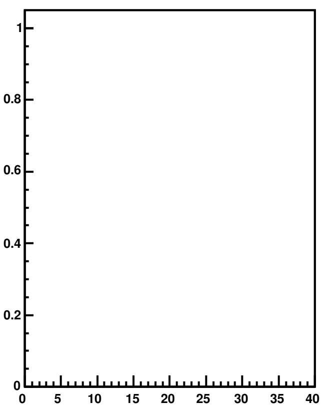


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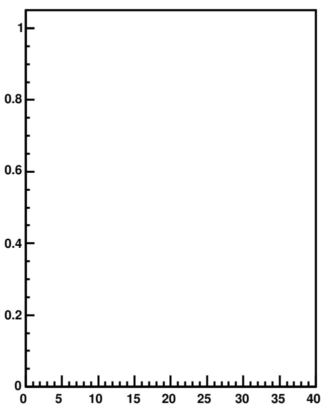


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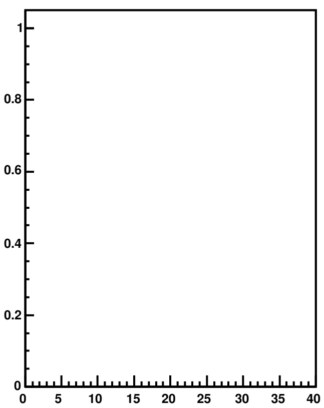


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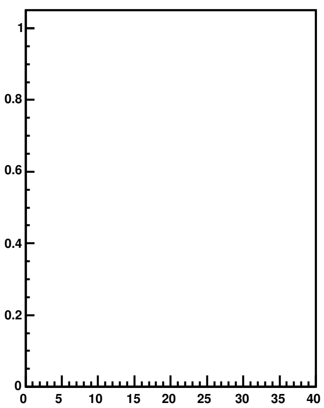


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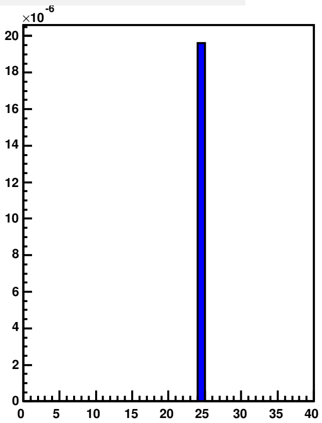


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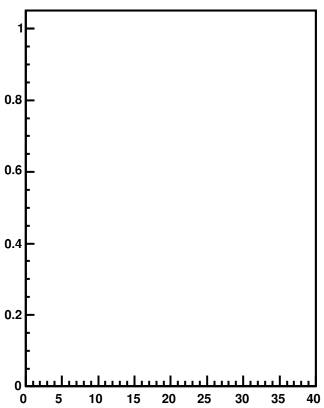


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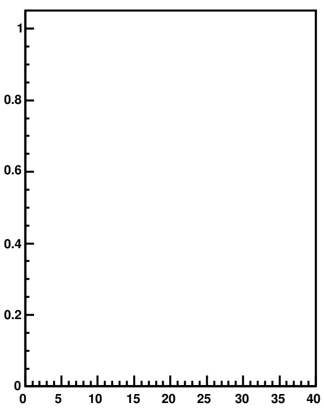


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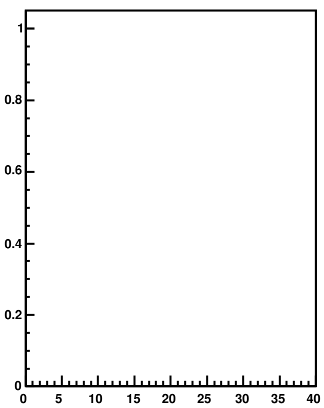


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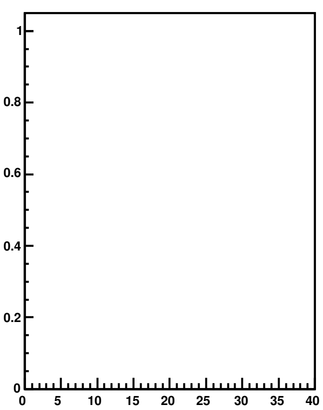


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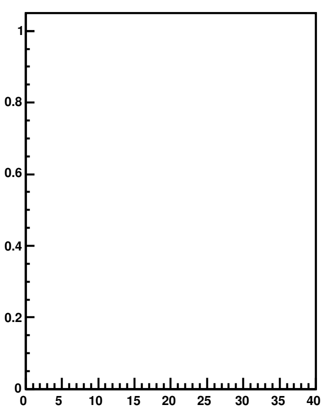


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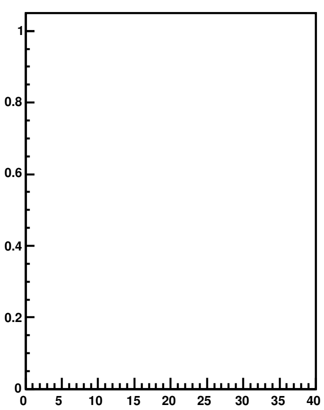

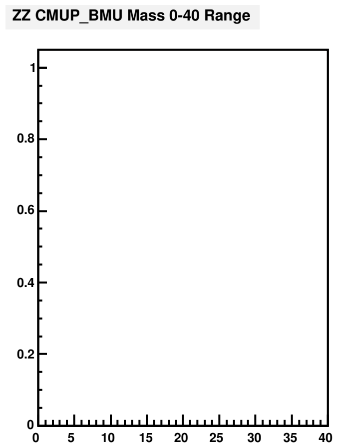
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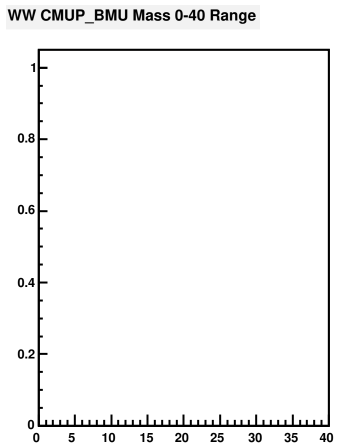
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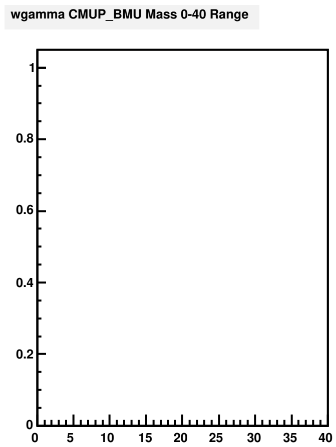
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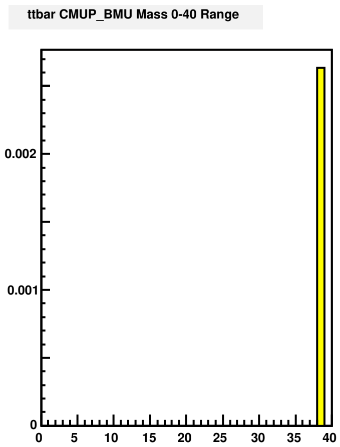
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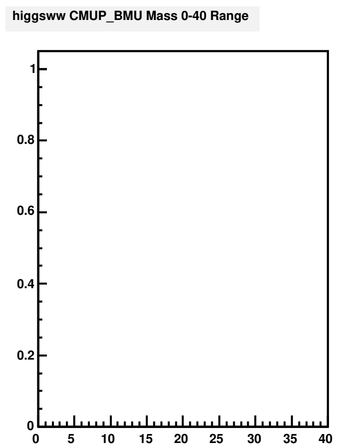
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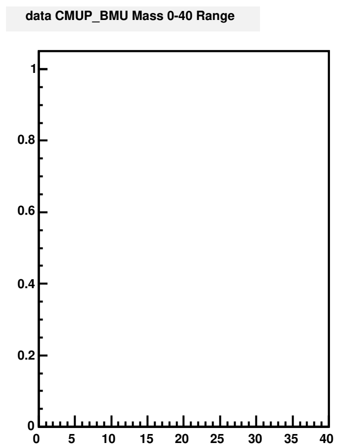
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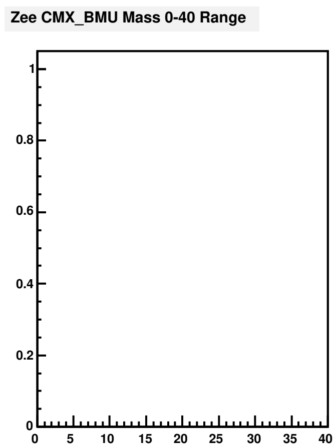
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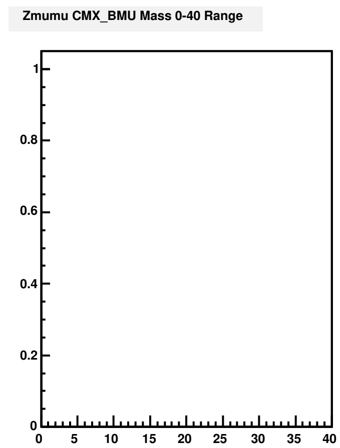
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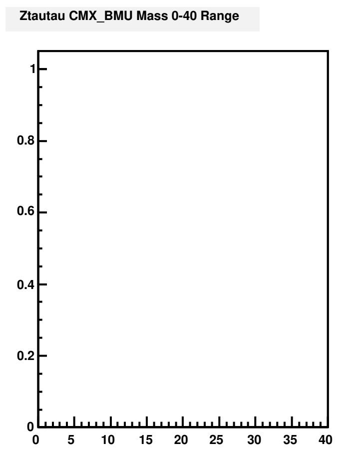
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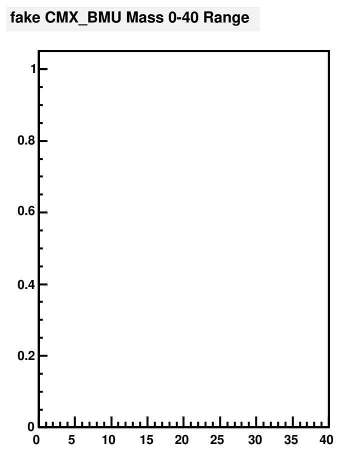
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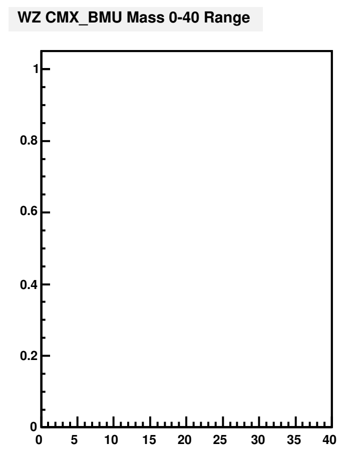
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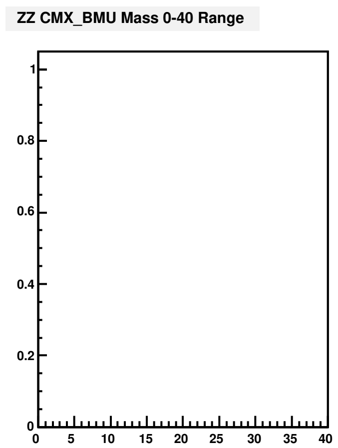
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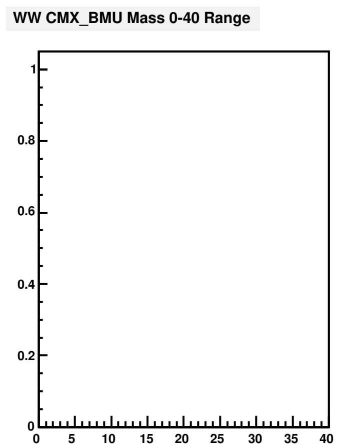
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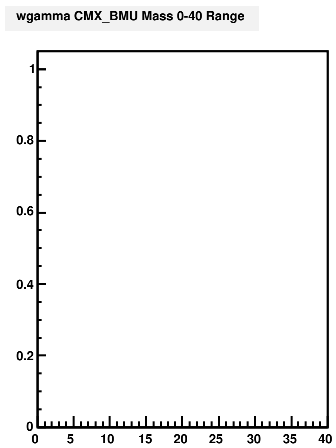
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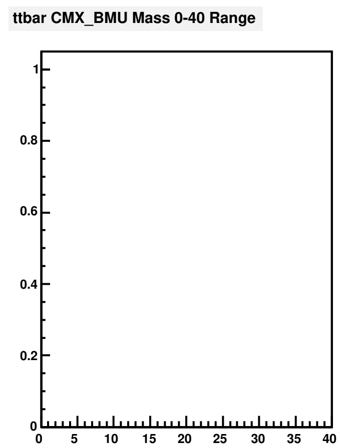
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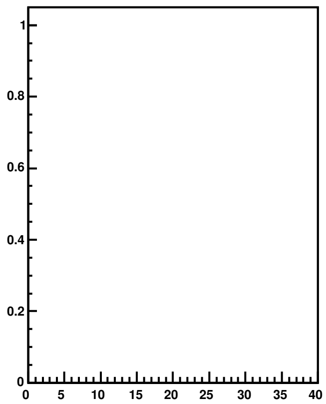


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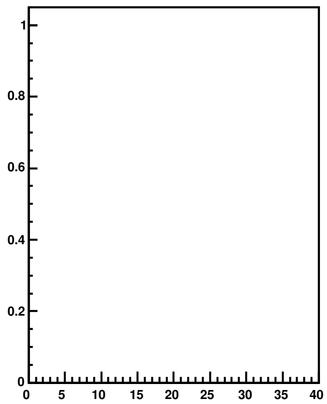


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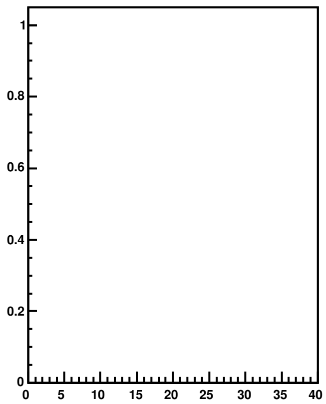


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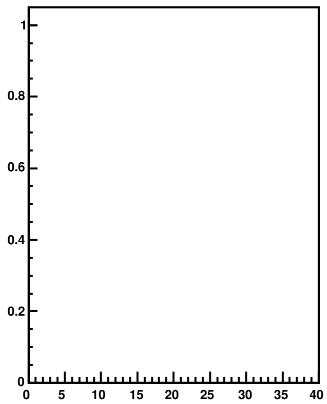


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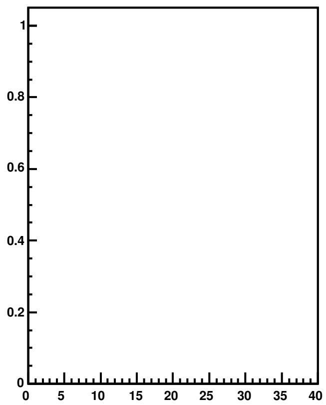


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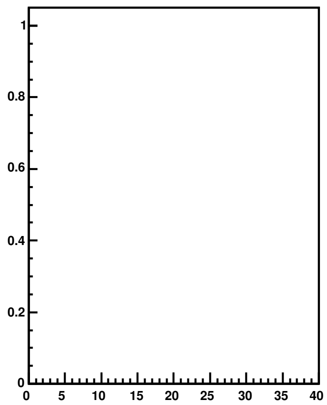


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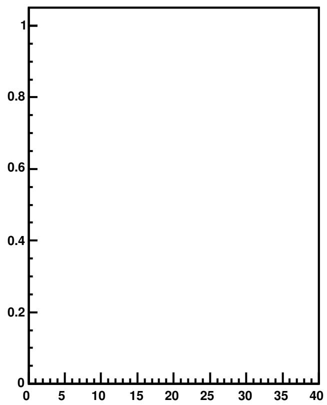


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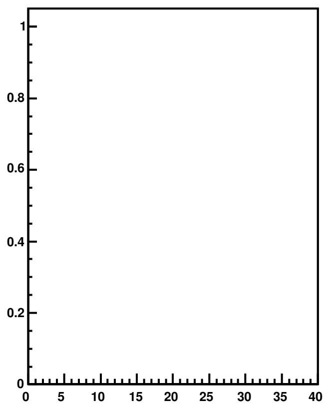


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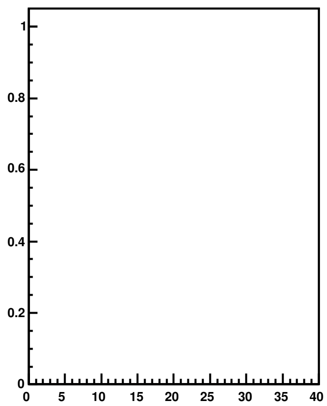


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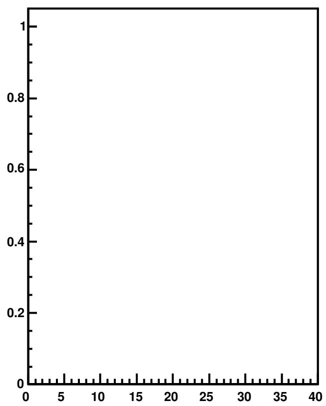


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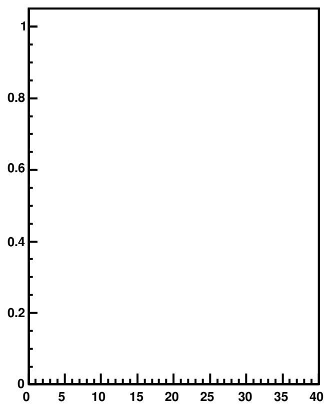


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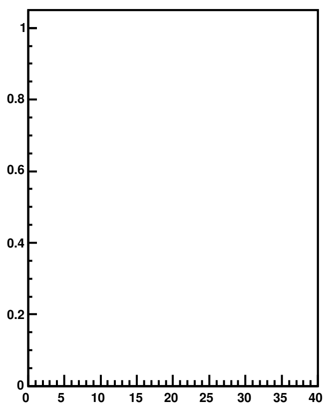


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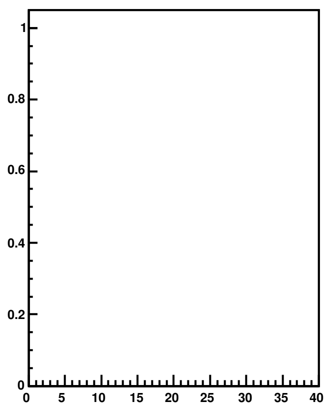


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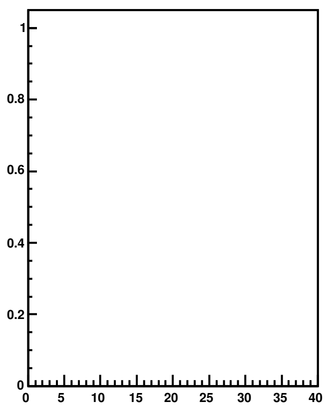


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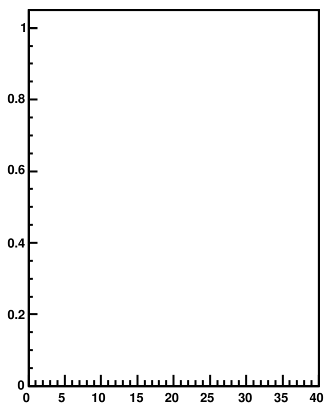

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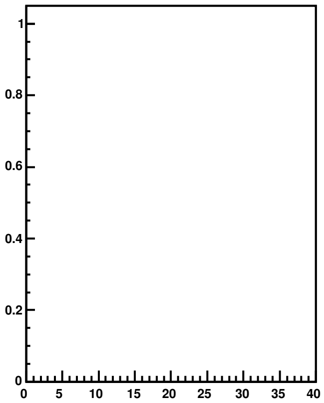


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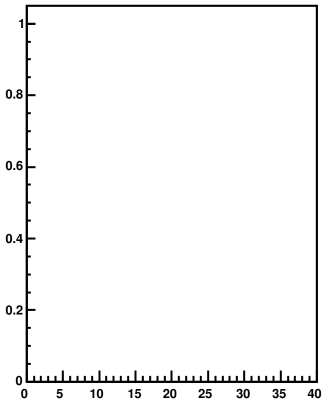


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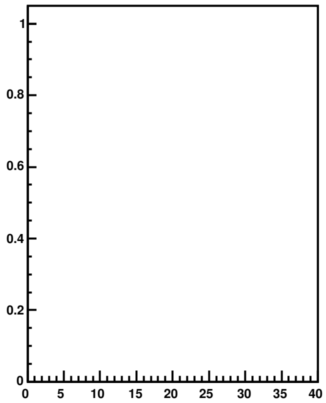


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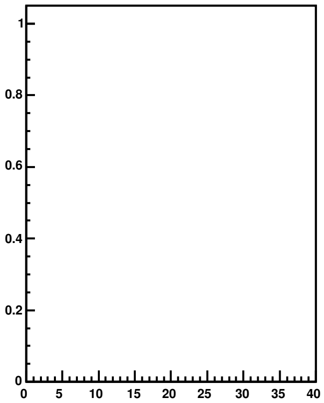


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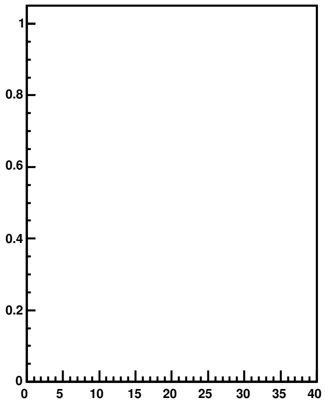


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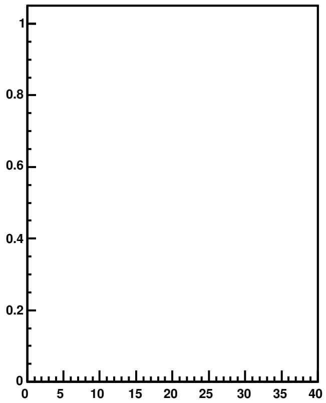


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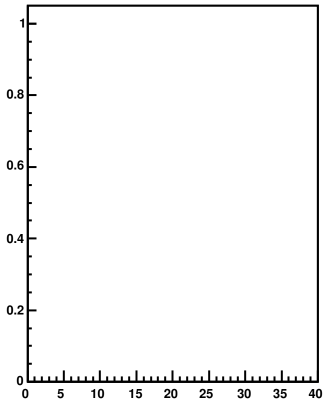


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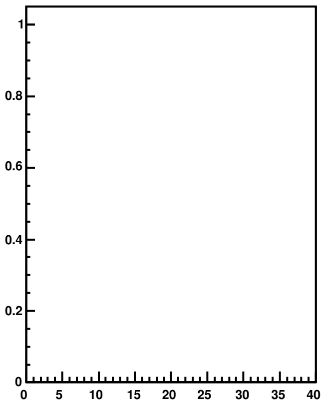


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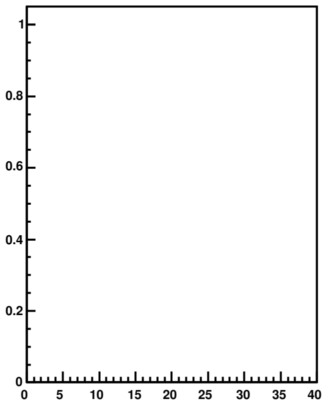


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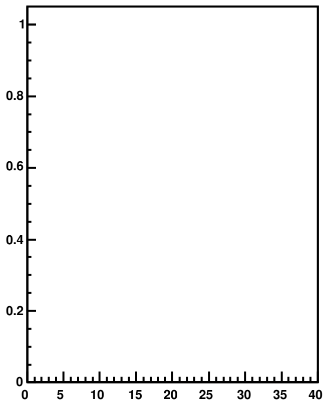


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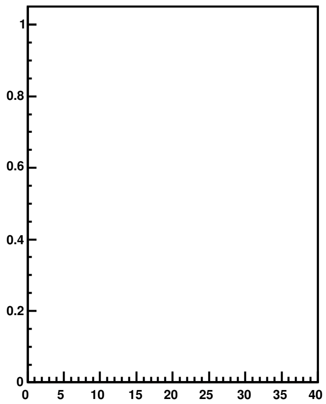


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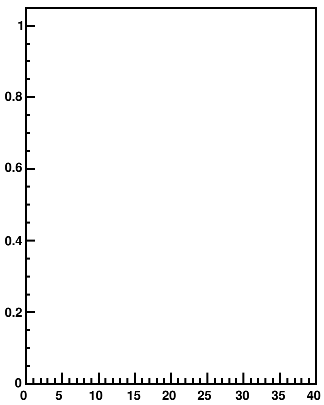


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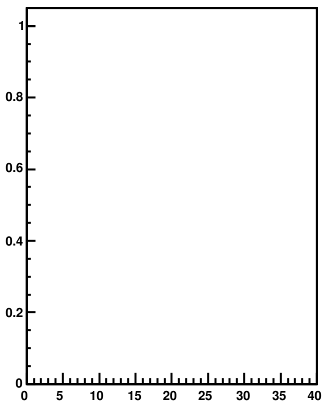


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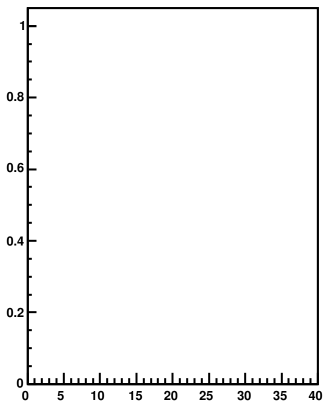

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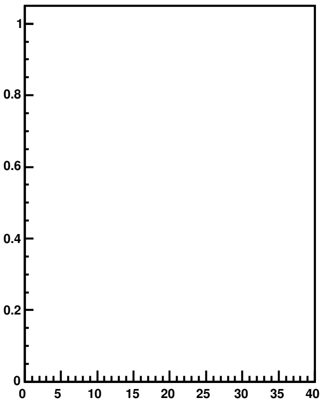

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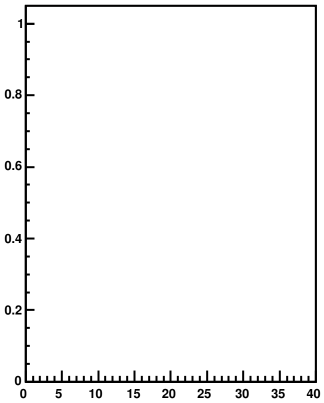

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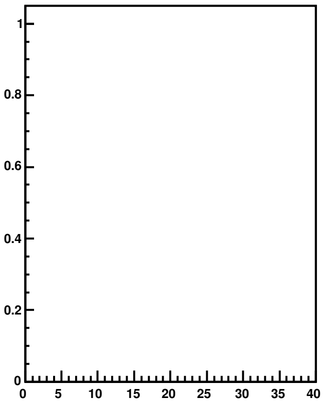

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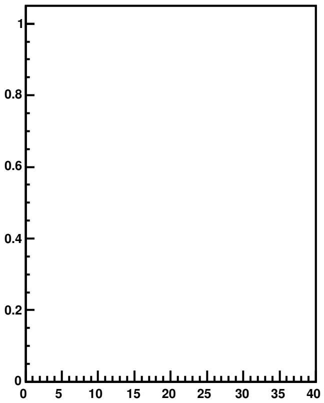

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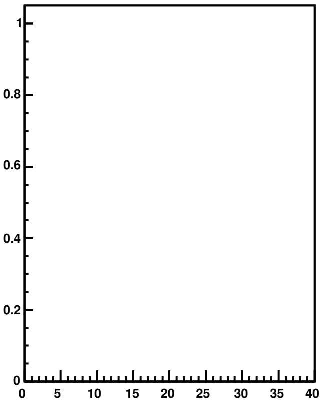

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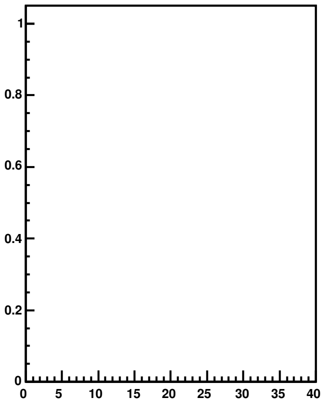

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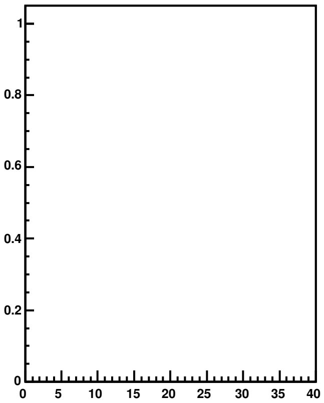

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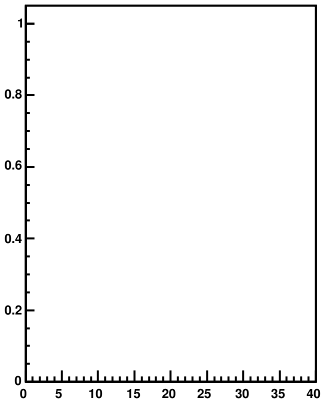

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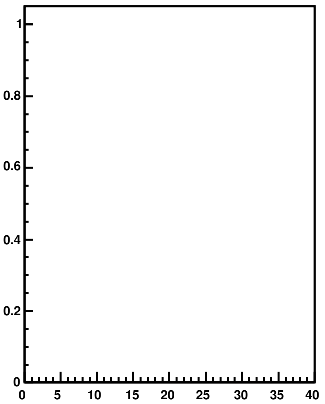

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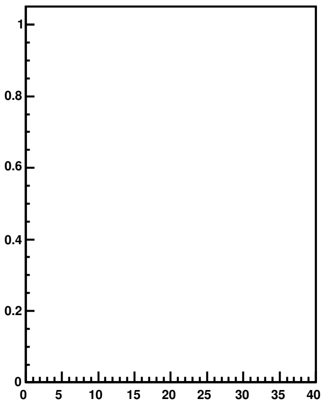

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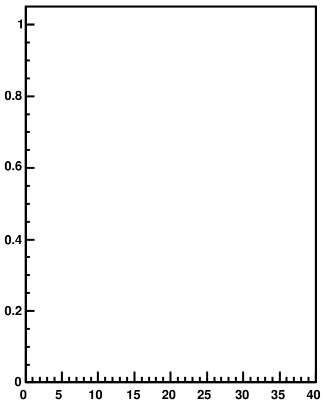

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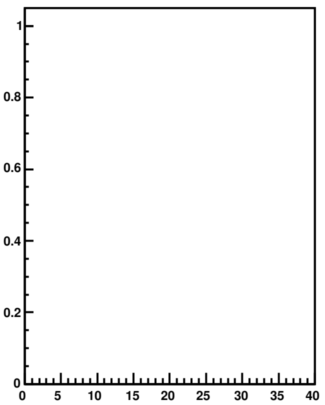
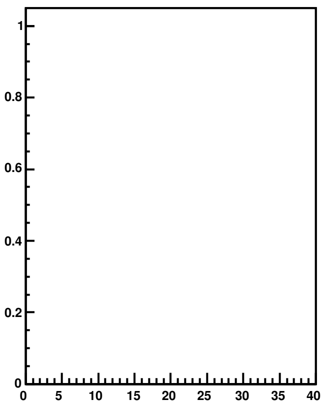


WW CMU_BMU Mass 0-40 Range



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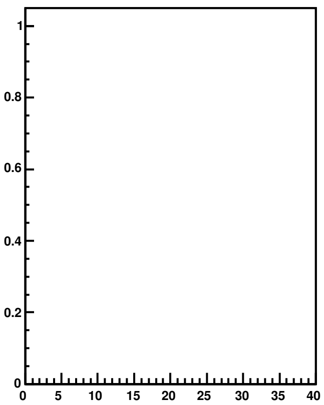

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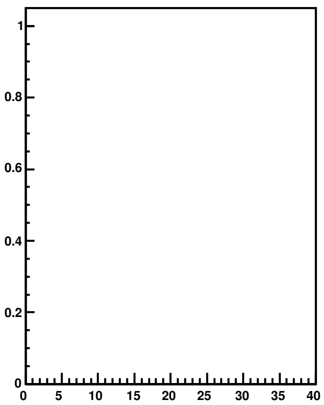

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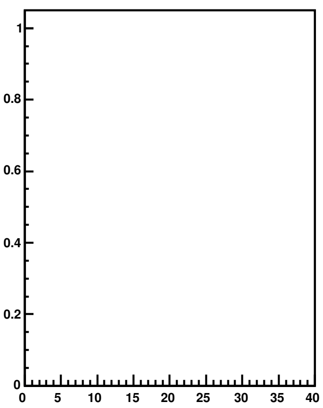


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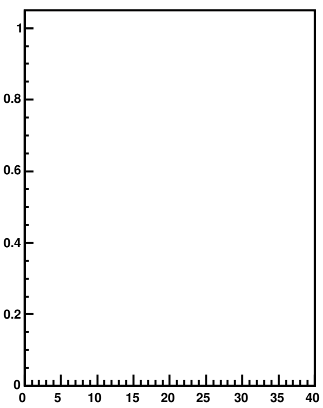


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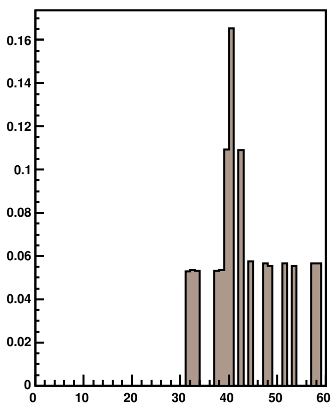


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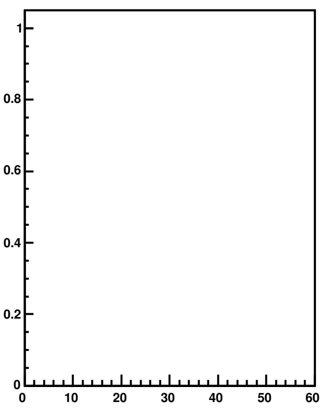


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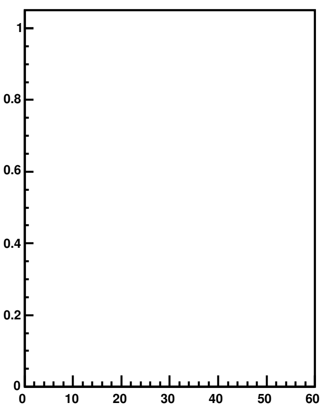


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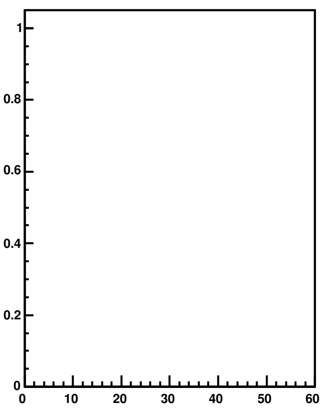


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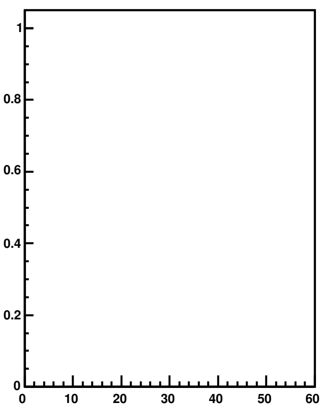


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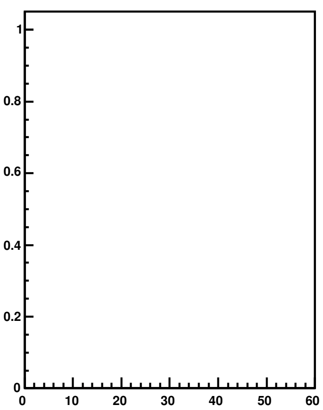


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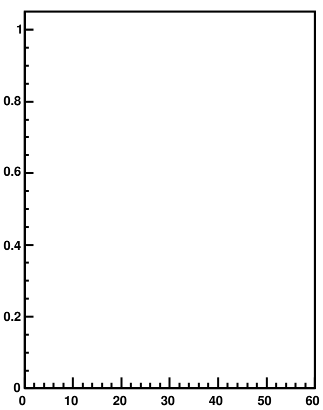


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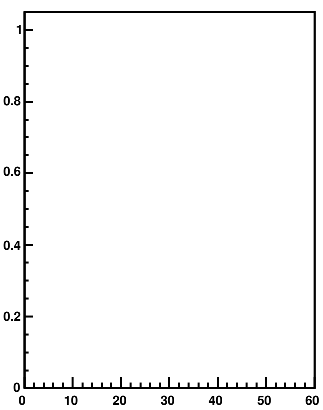


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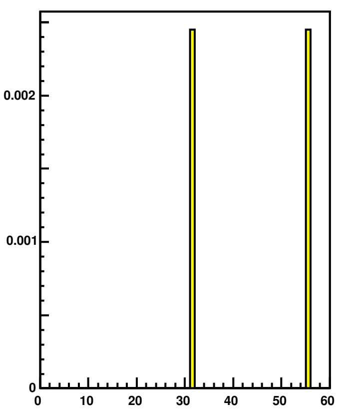


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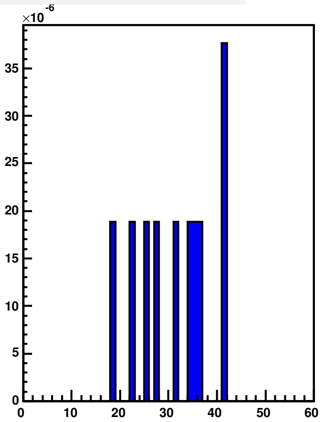


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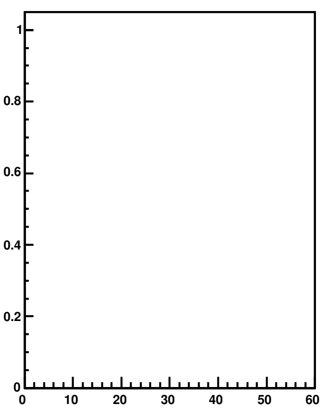


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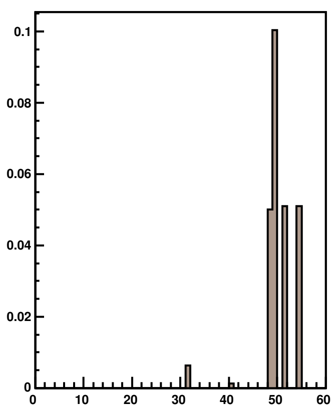


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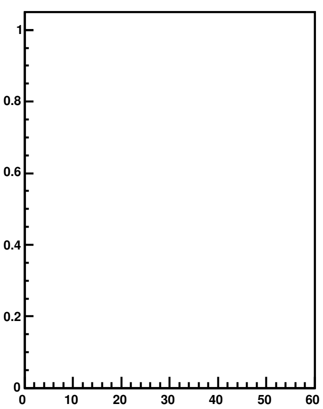

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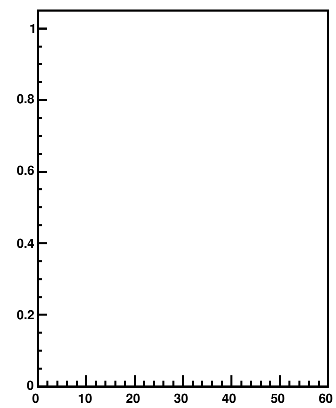

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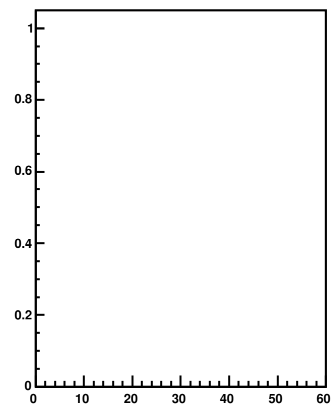

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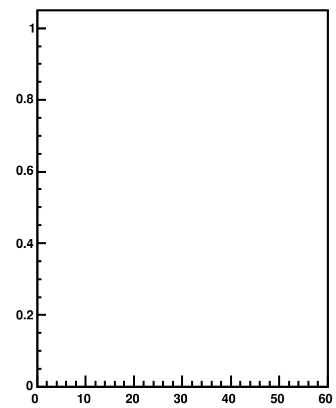

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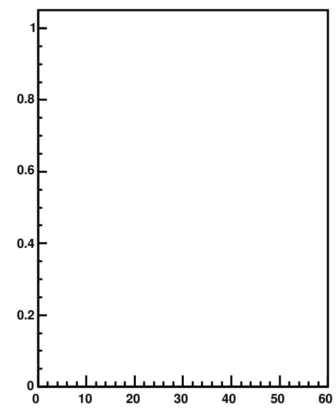

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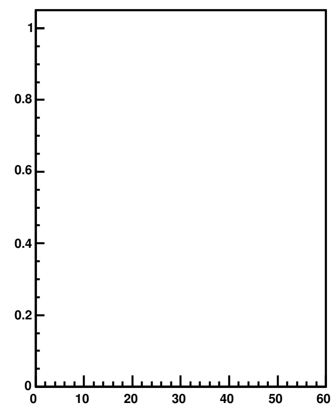

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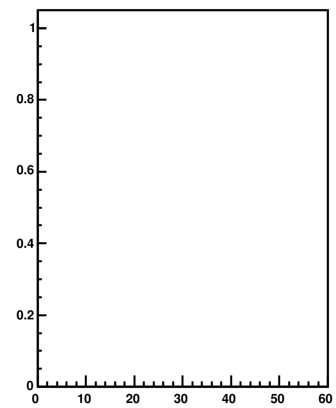

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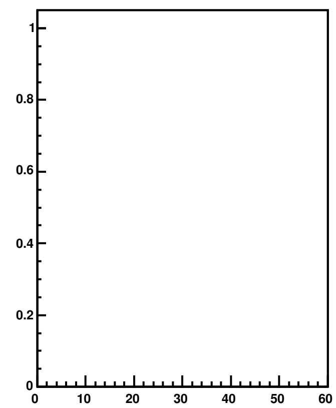

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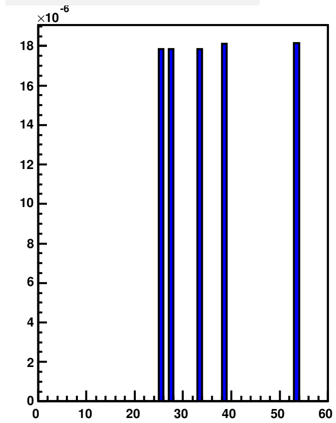

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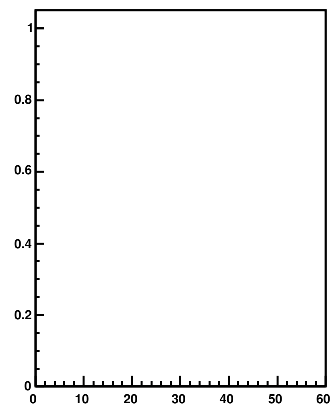

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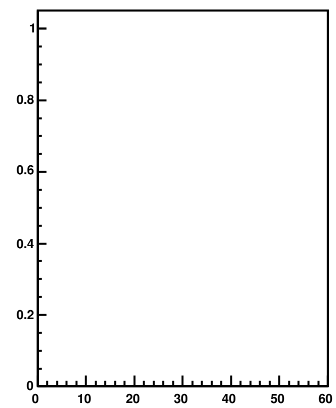

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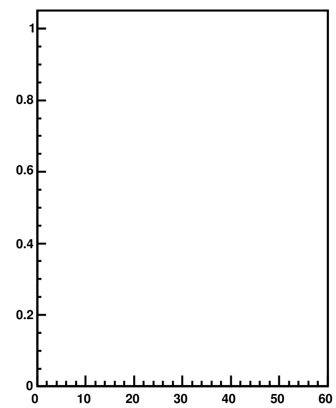

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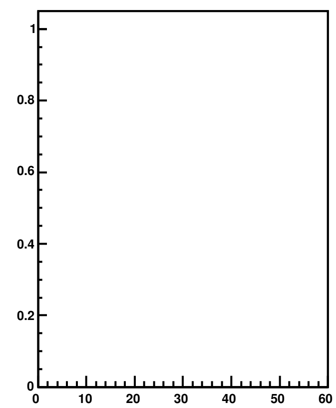

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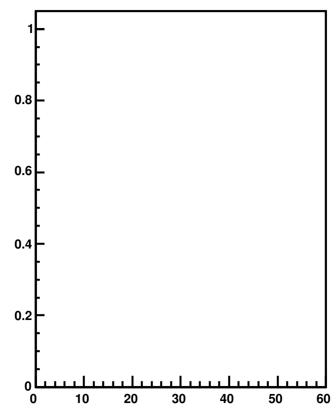

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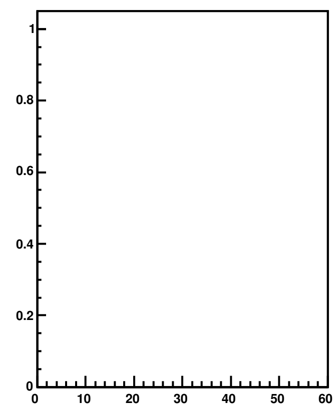

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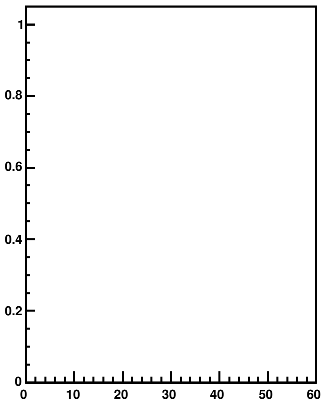


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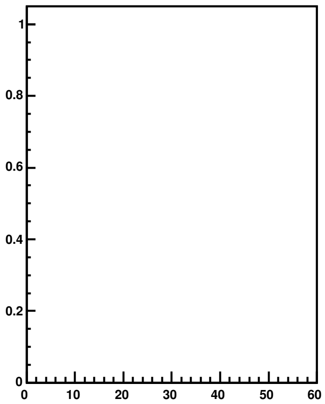


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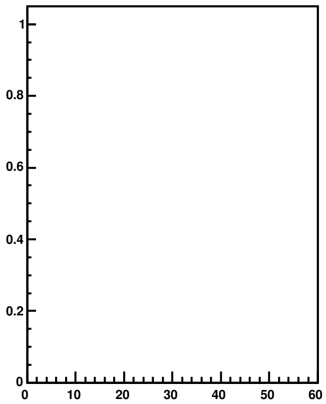


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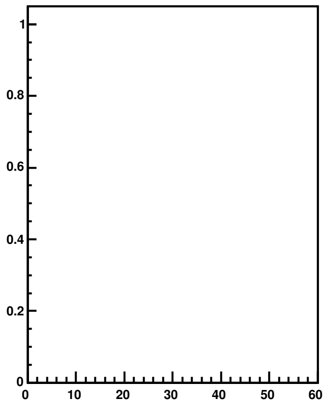


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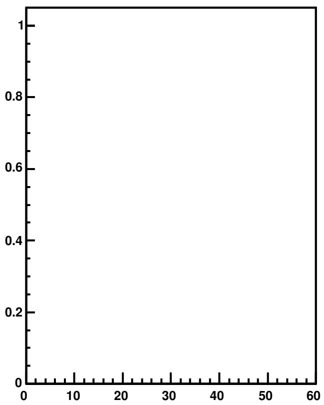


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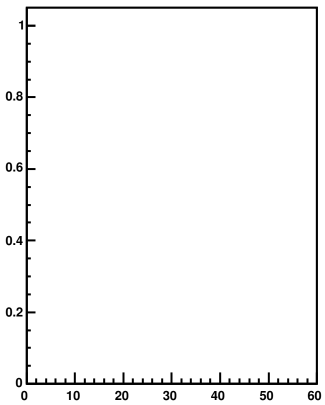


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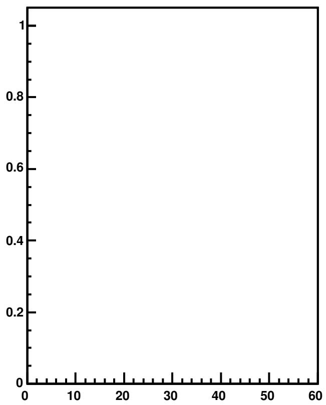


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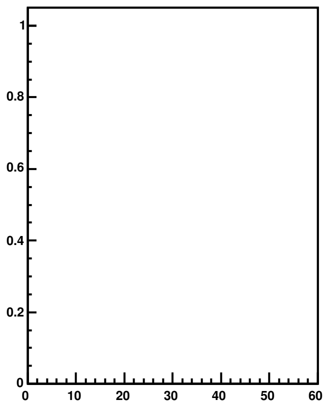


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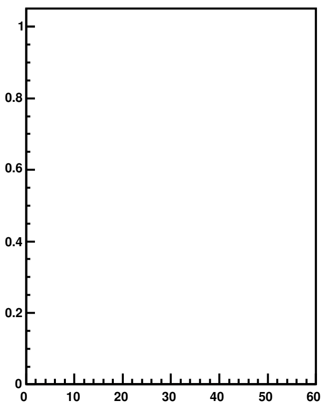


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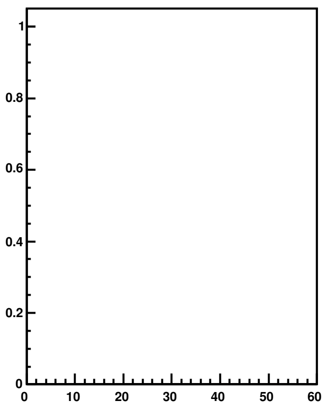


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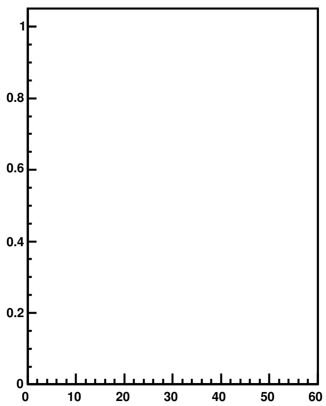


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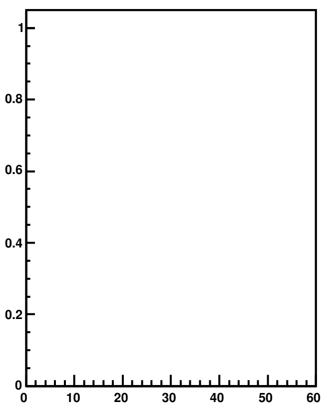


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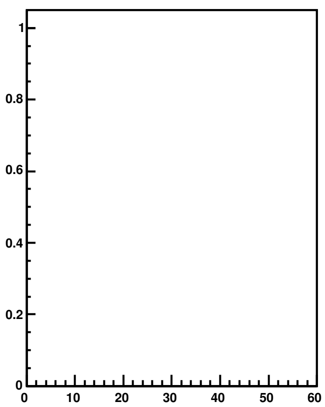


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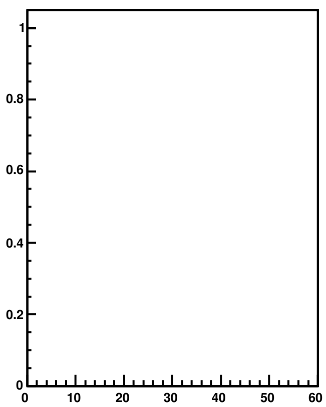


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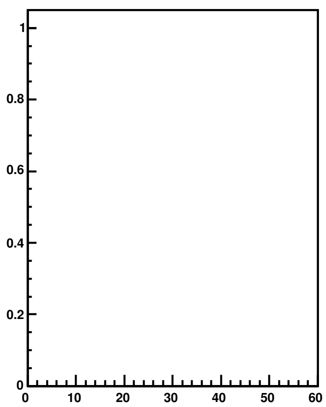

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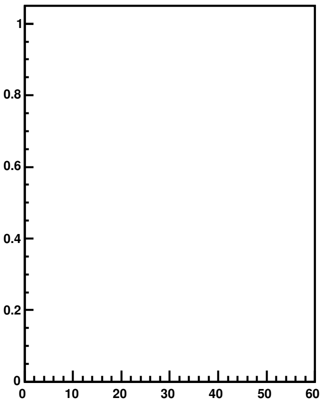


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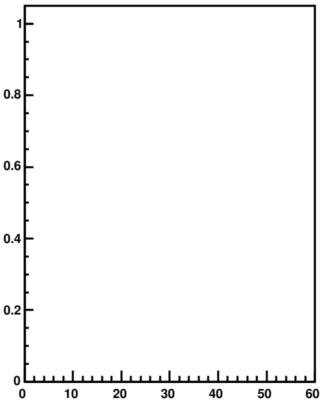


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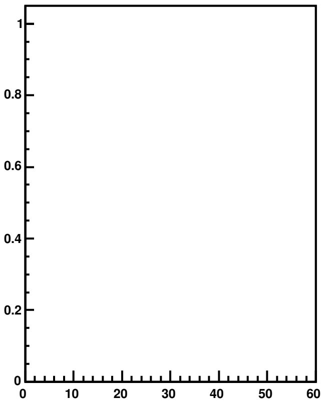


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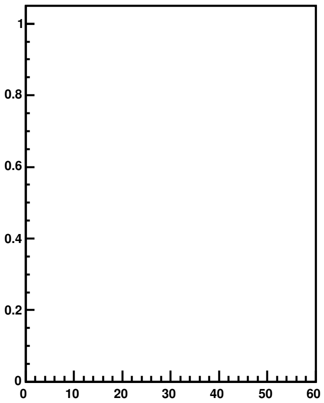


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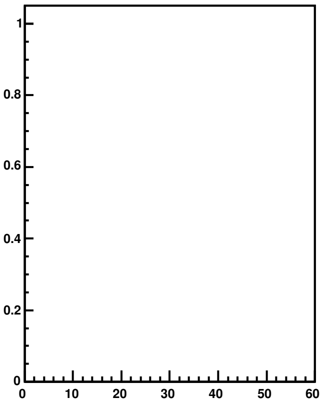


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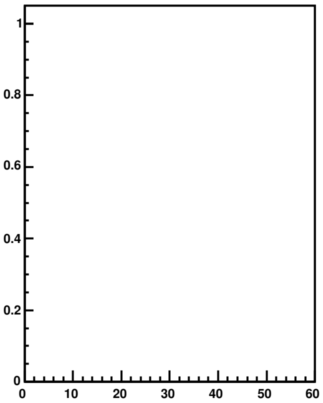


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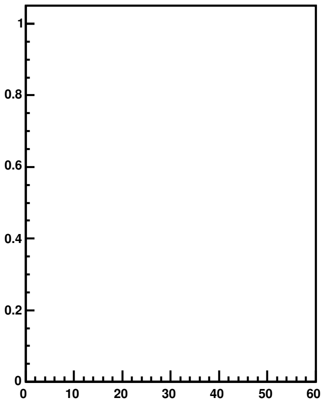


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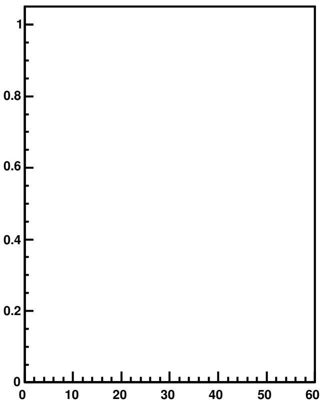


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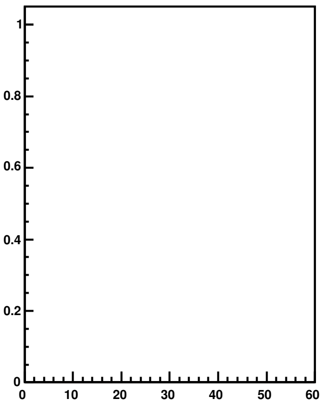


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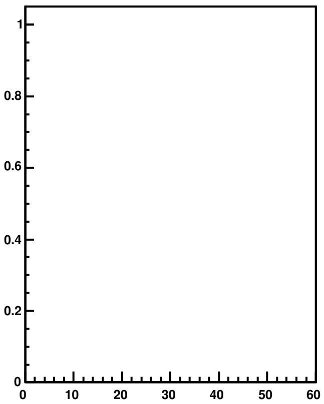


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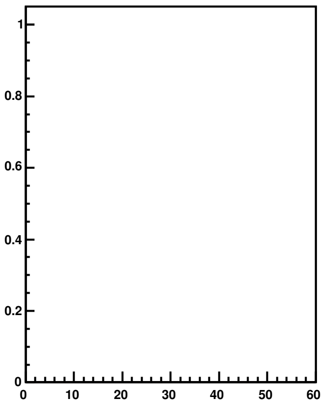


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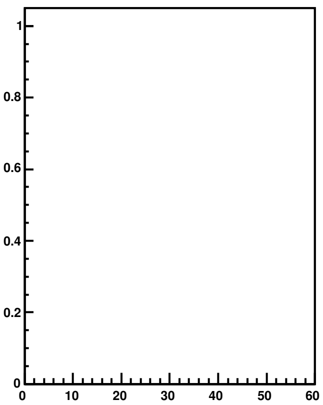


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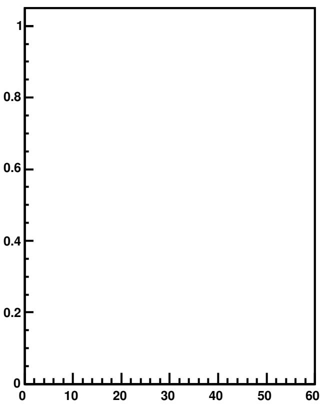
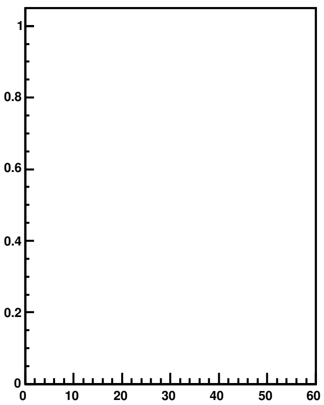



Zee TCE-CMUPlowdilmass

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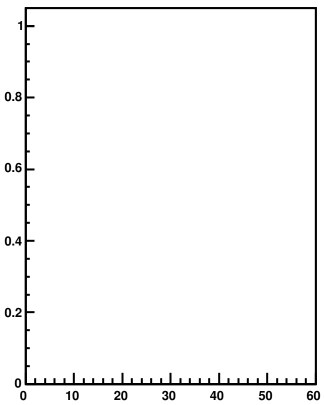

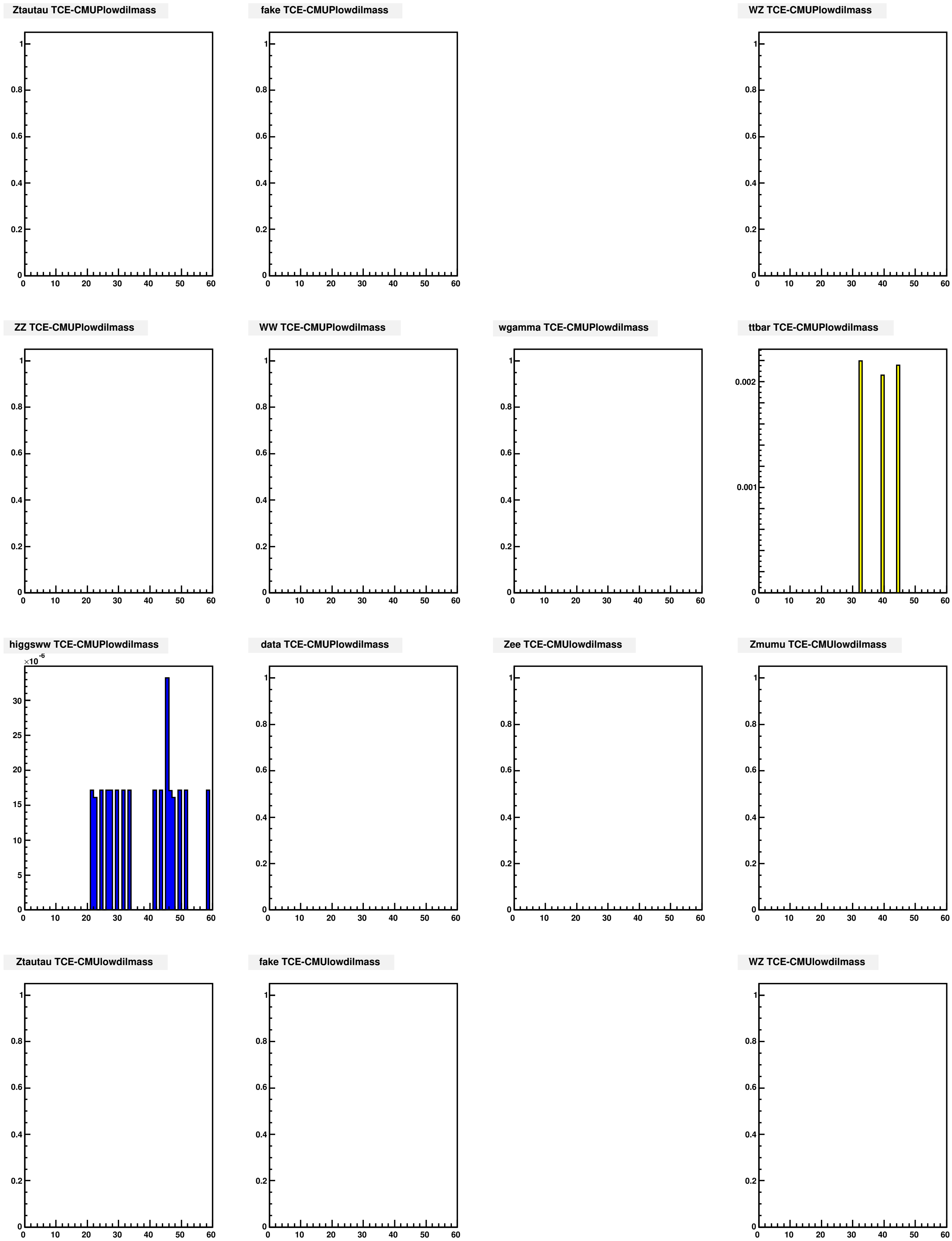
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fake TCE-CMUPlowdilmass
WZ TCE-CMUPlowdilmass
ZZ TCE-CMUPlowdilmass
WW TCE-CMUPlowdilmass
wgamma TCE-CMUPlowdilmass
ttbar TCE-CMUPlowdilmass
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Zee TCE-CMUlowdilmass
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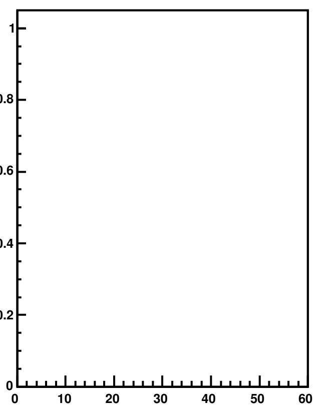

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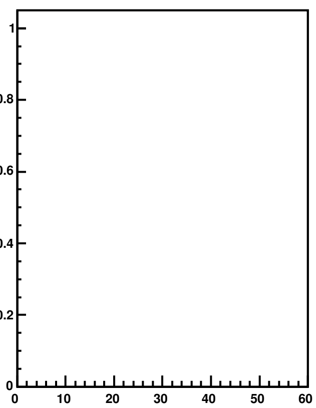

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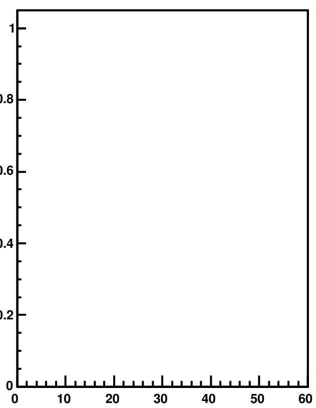

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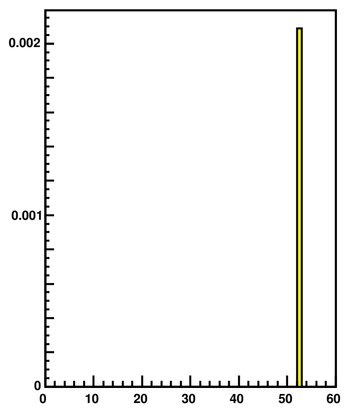


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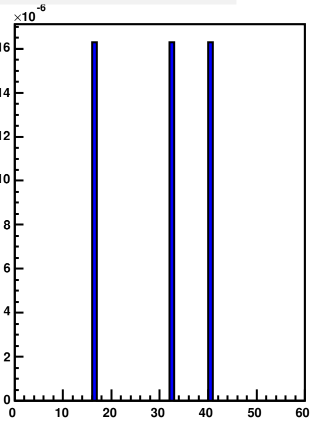


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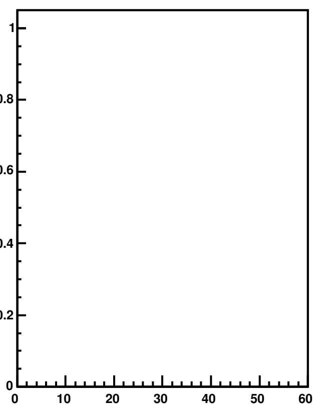

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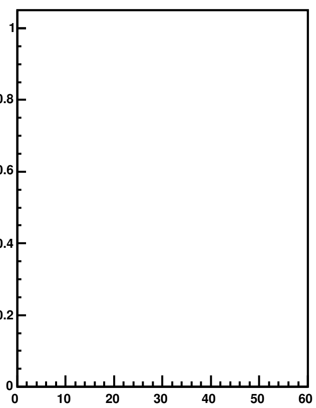

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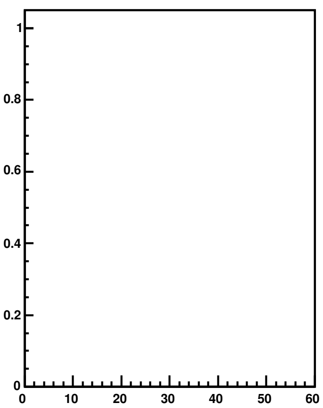

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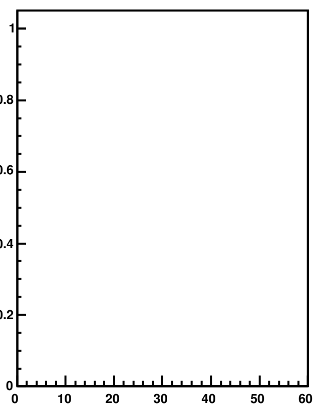

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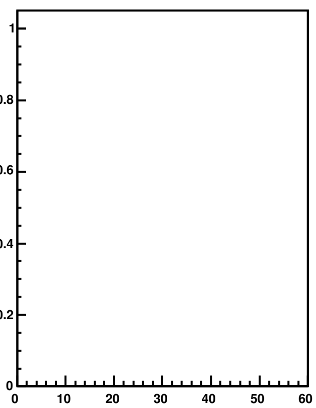

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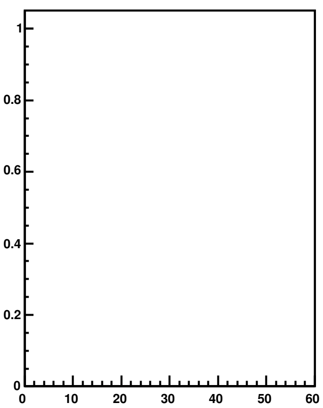

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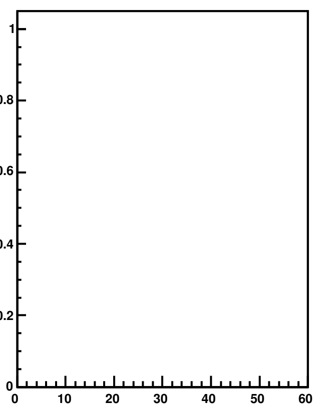

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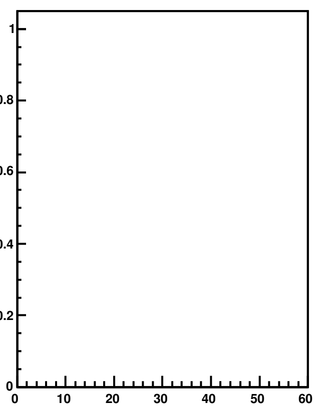

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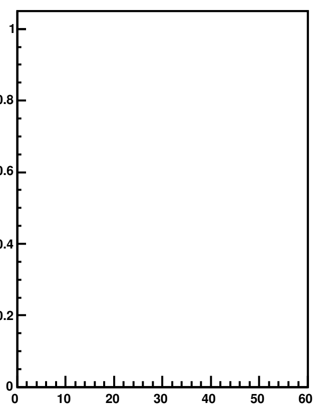

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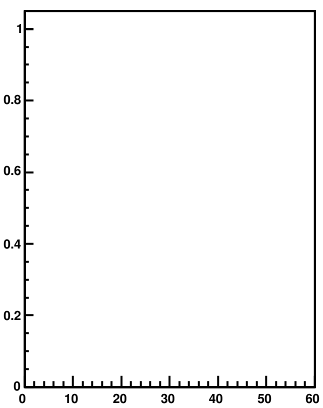

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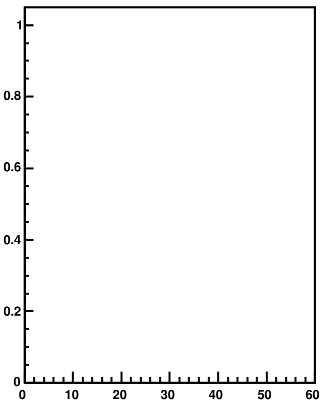


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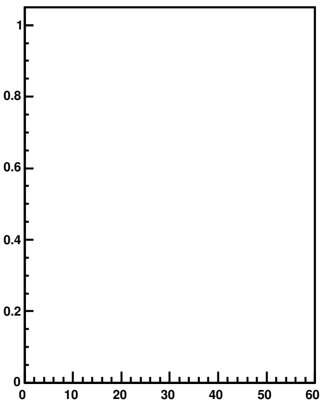


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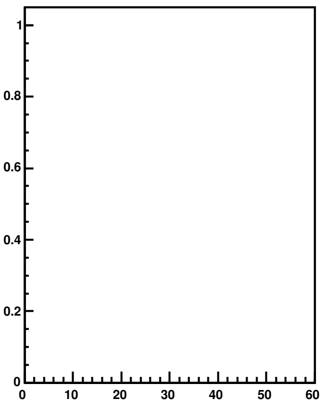


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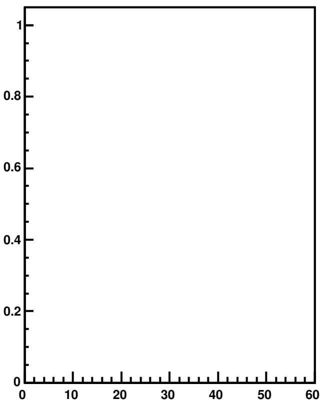


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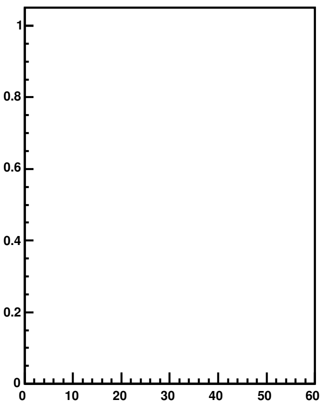


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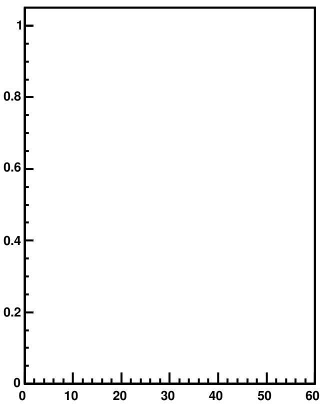


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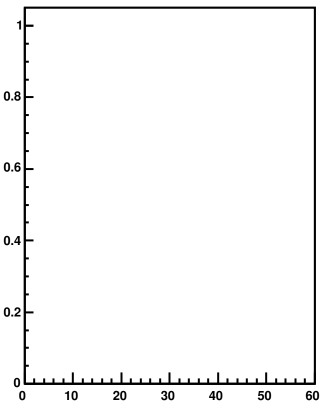


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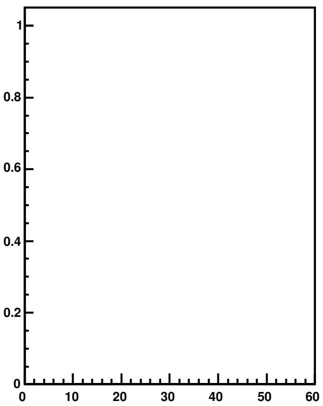


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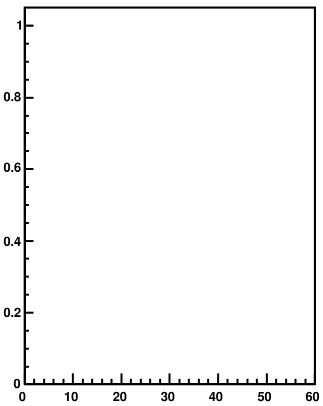


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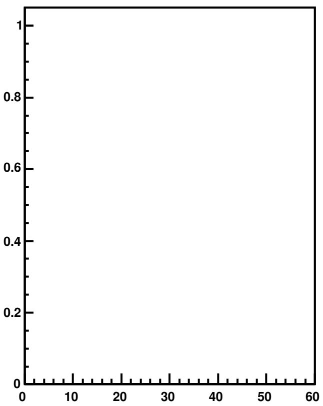


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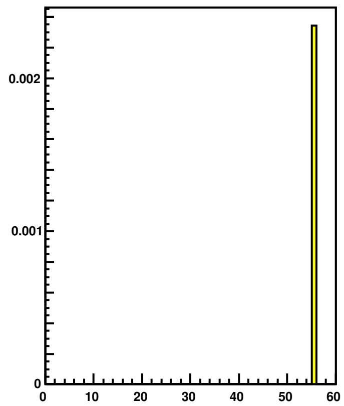


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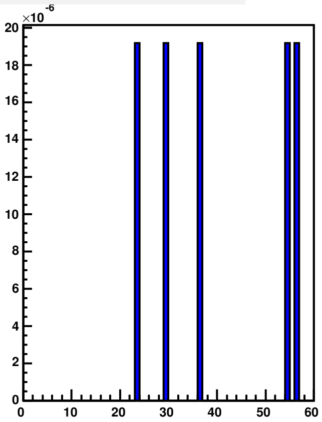


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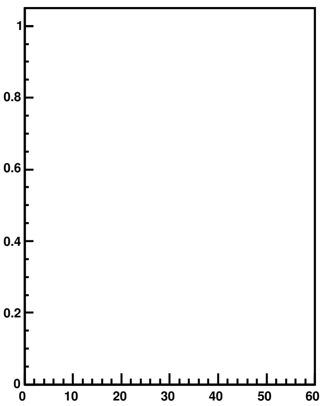


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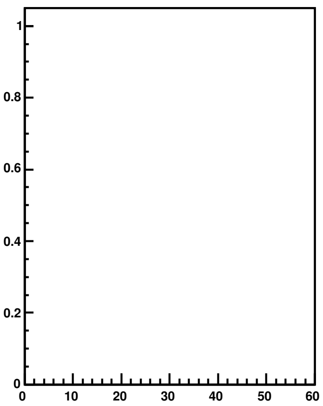


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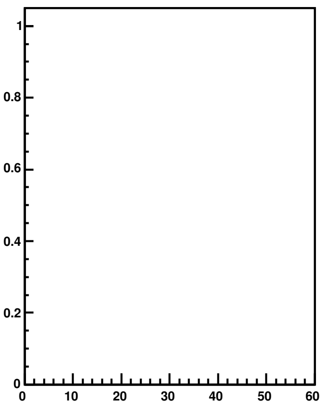

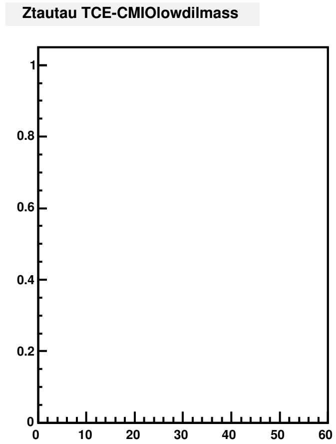
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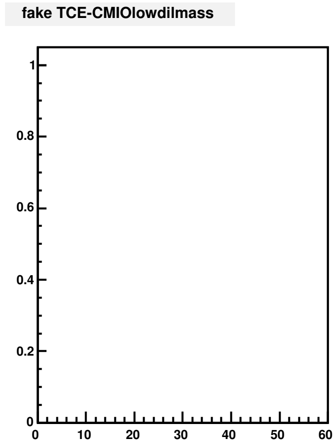
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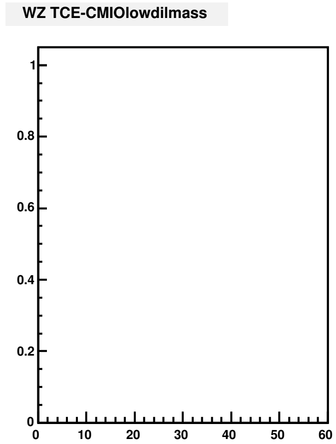
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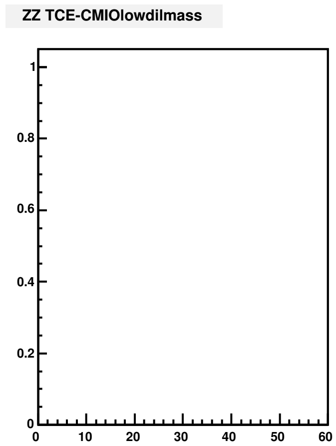
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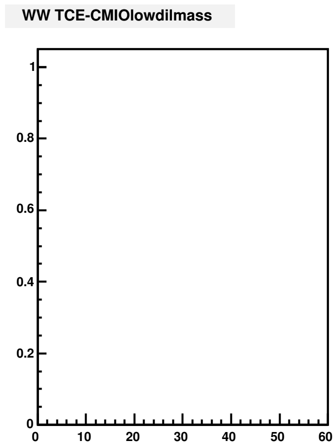
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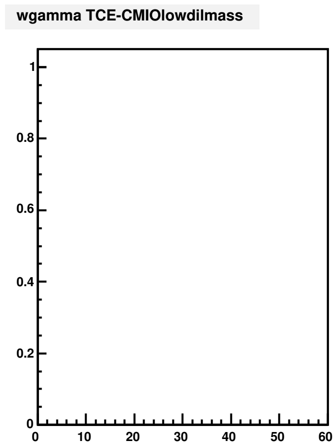
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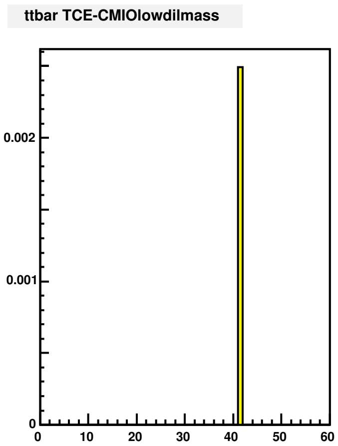
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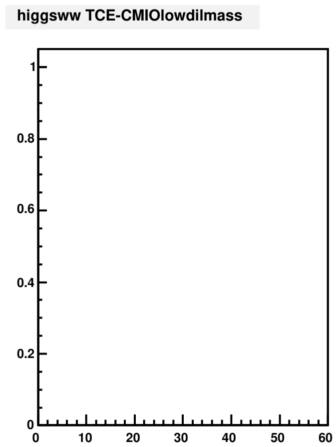
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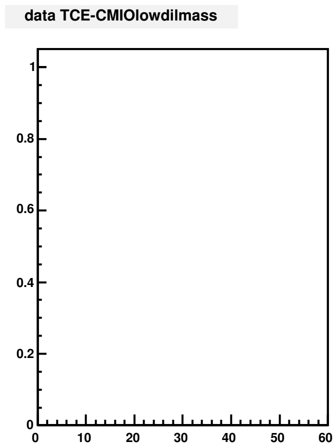
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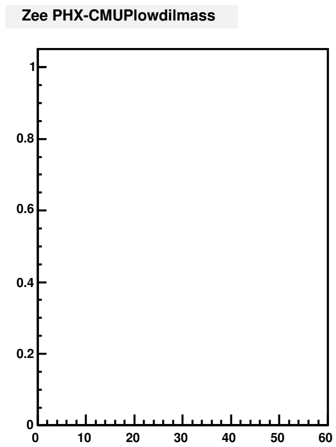
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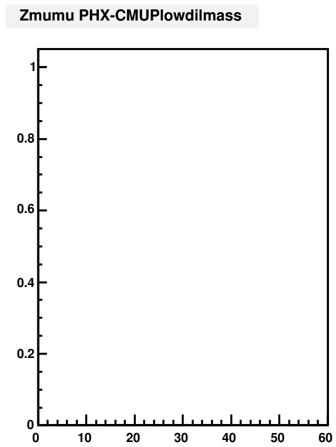
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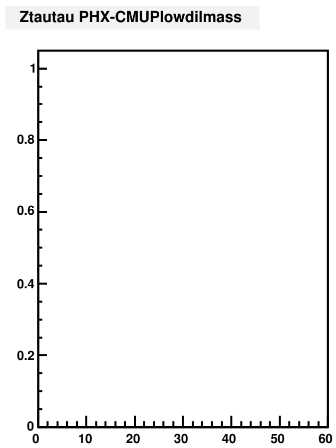
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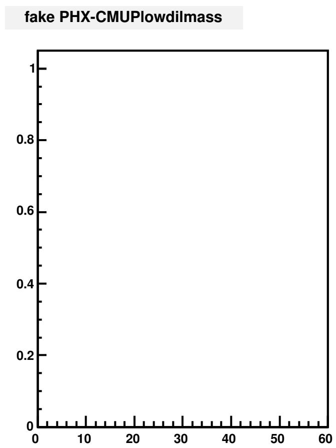
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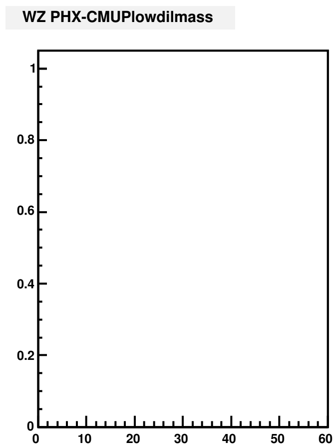
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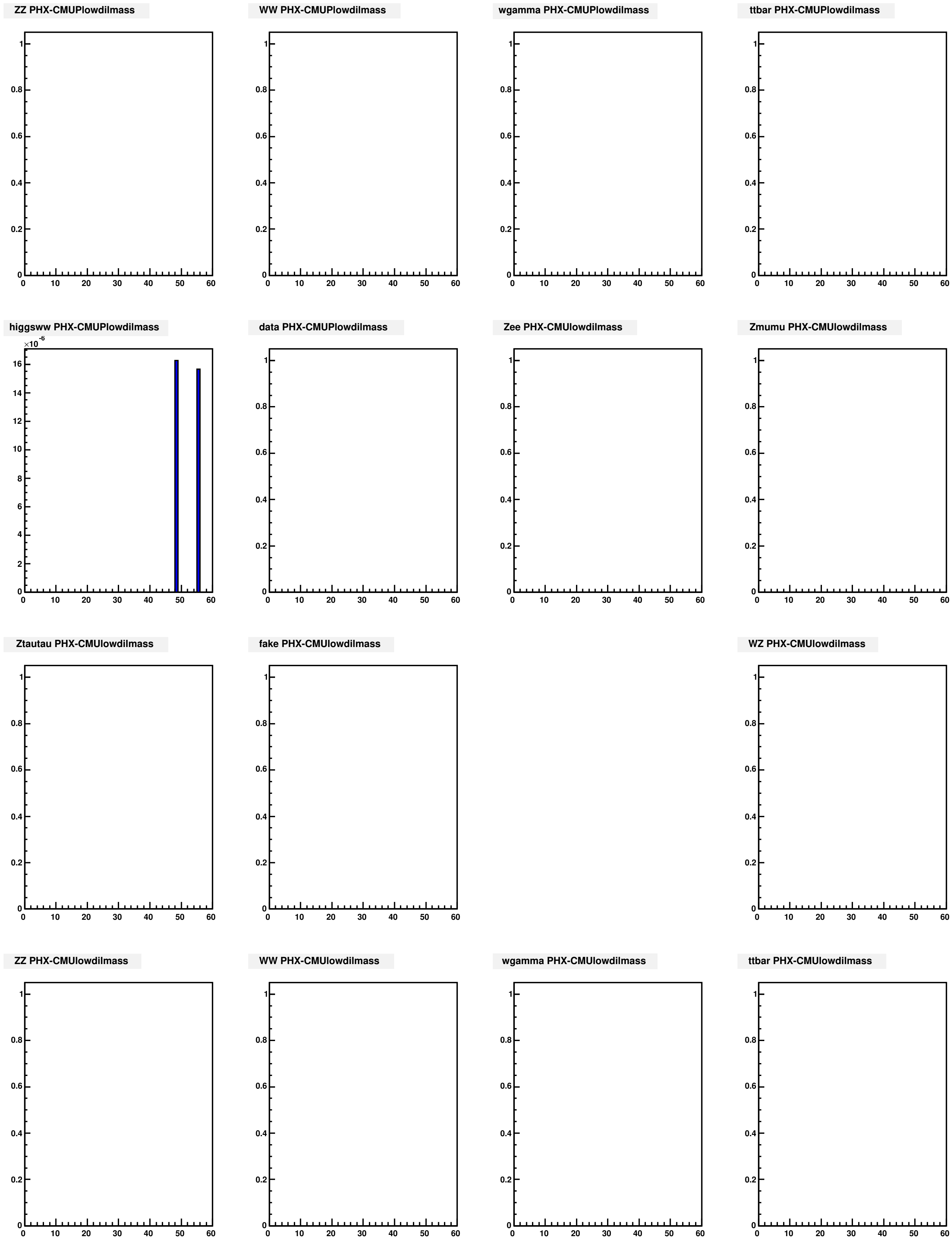

ZZ PHX-CMUPlowdilmass
WW PHX-CMUPlowdilmass
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ttbar PHX-CMUPlowdilmass
higgsww PHX-CMUPlowdilmass
×10-6
data PHX-CMUPlowdilmass
Zee PHX-CMUlowdilmass
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Ztautau PHX-CMUlowdilmass
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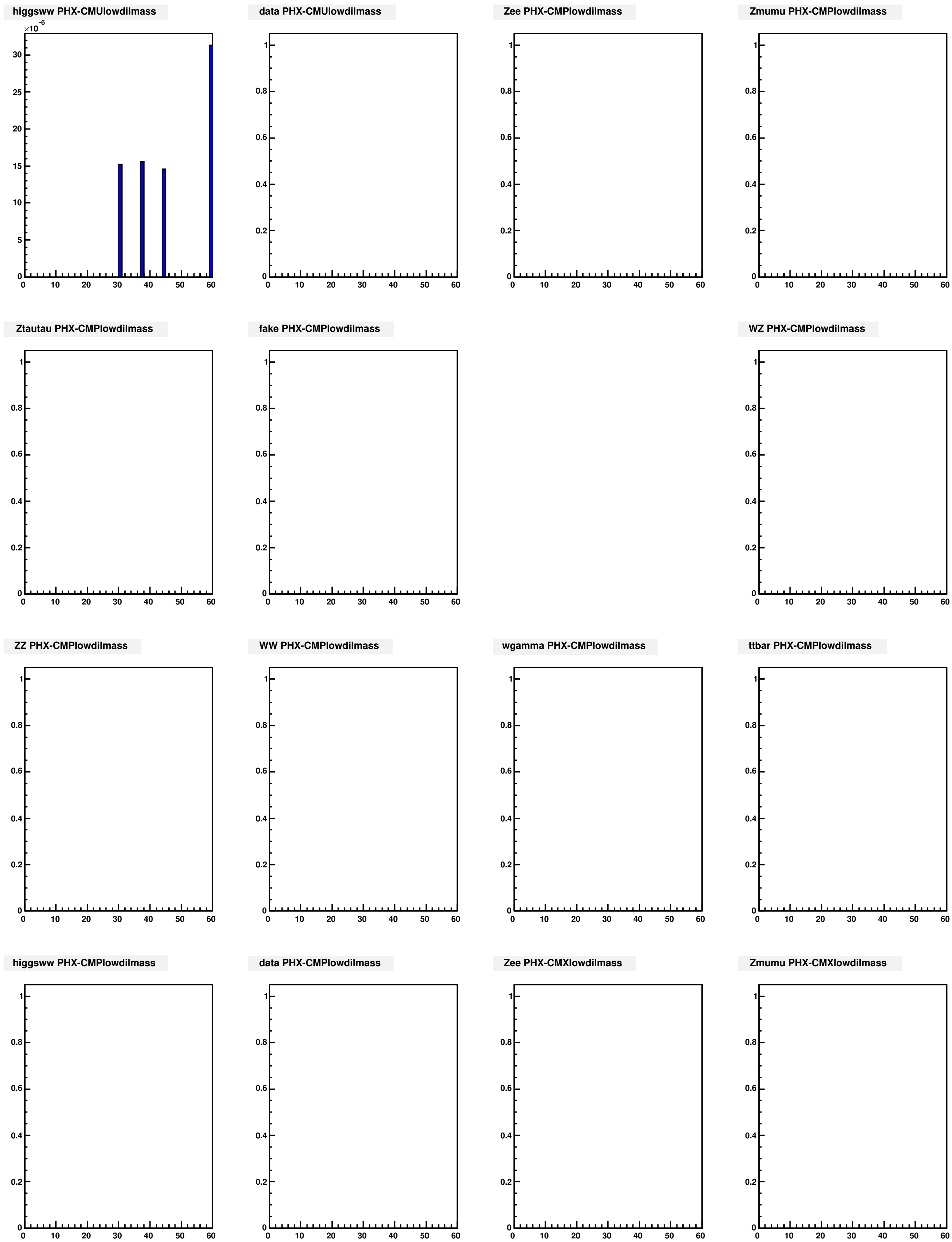
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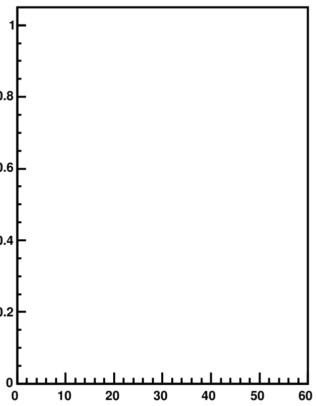

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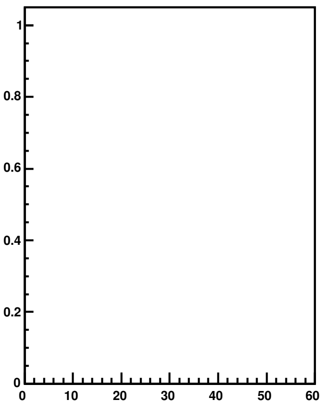

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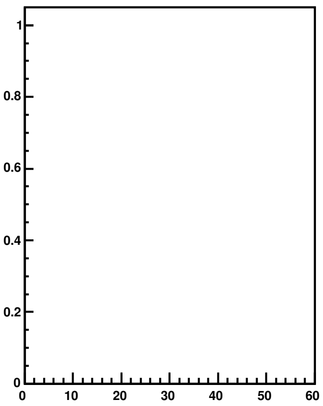

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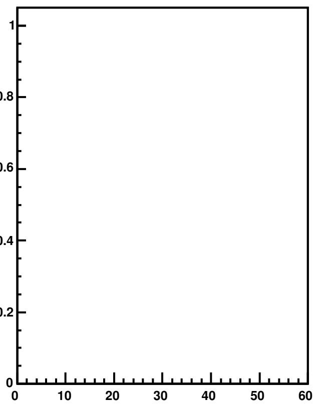

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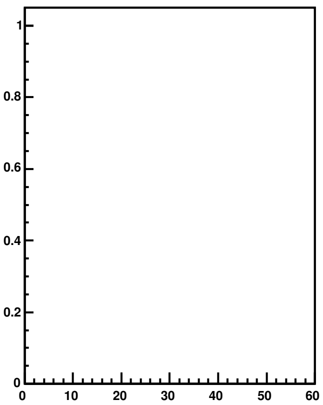

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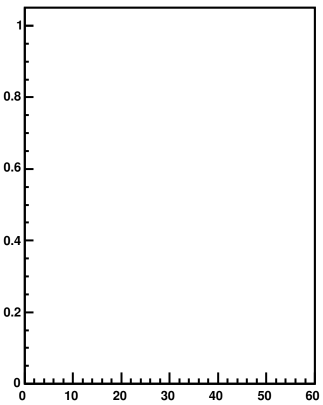

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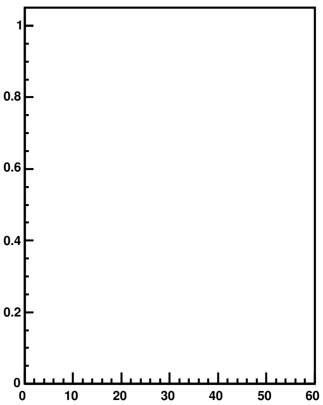

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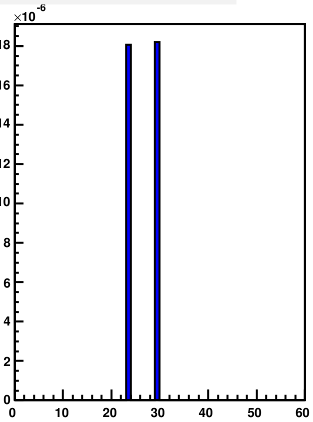

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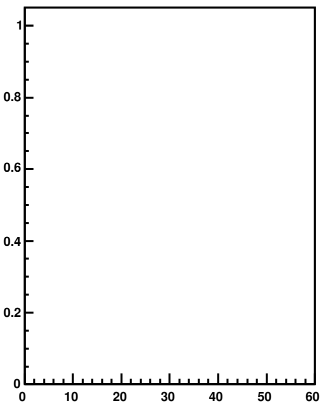

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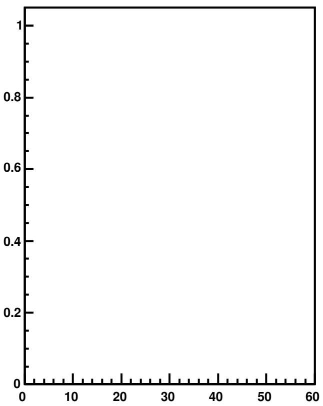

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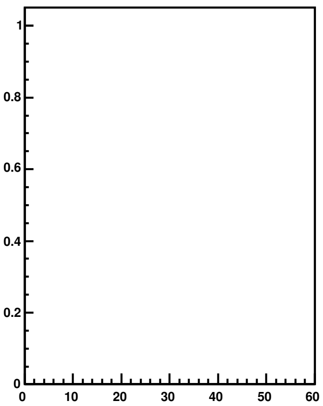

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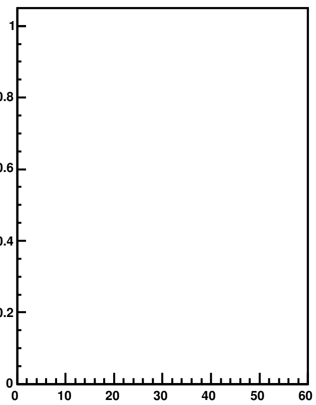

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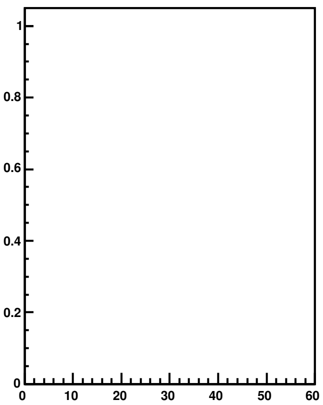

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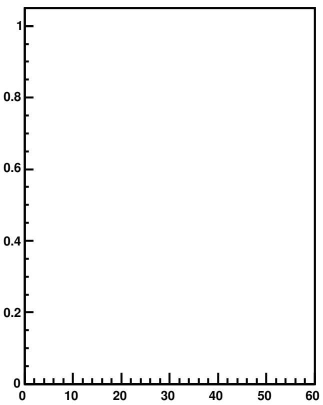

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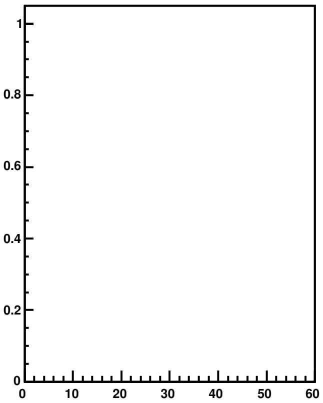


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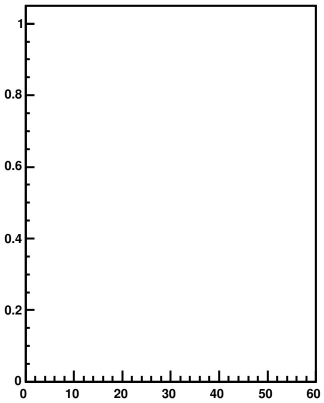


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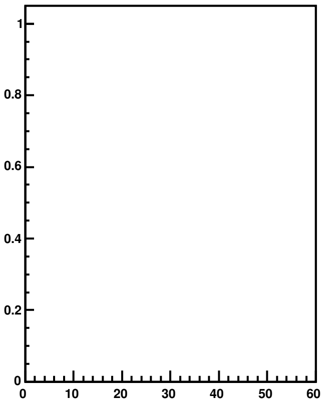


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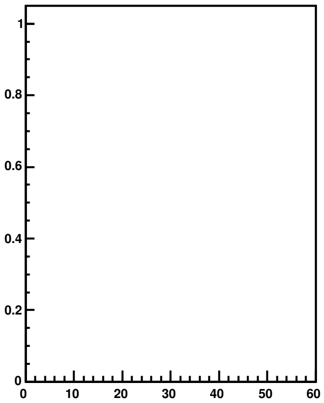


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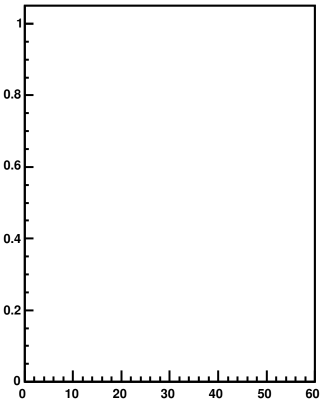


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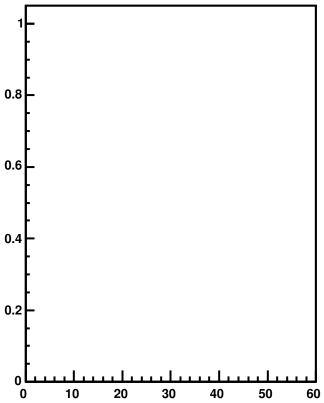


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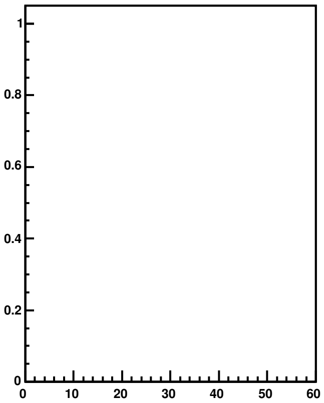


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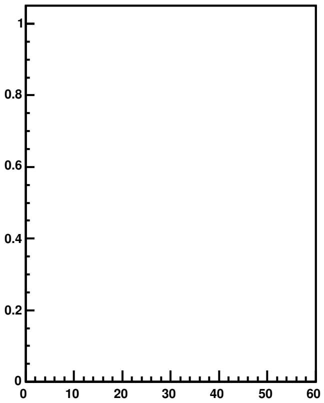


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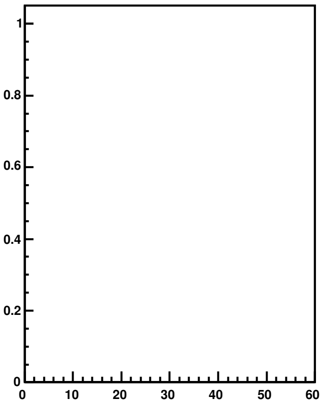


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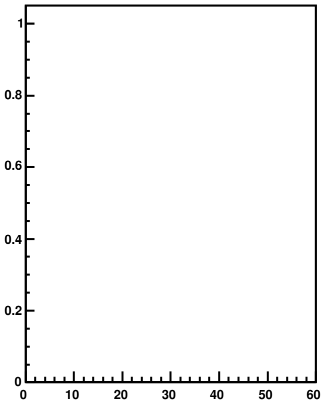


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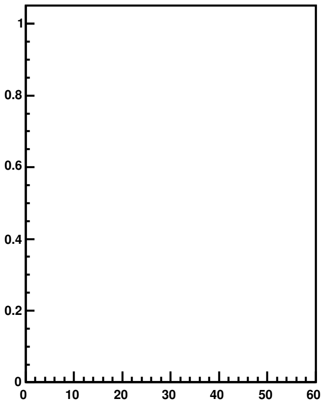


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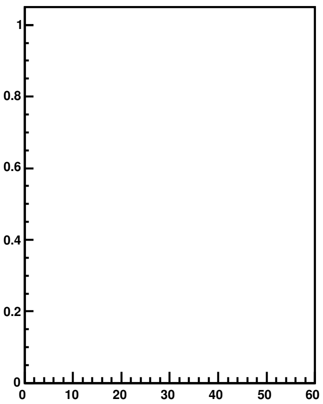


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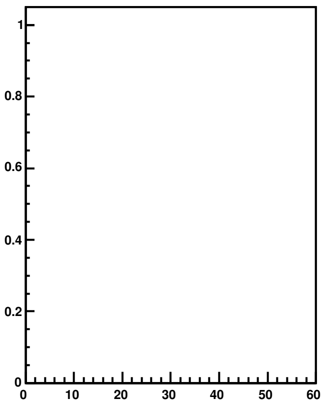


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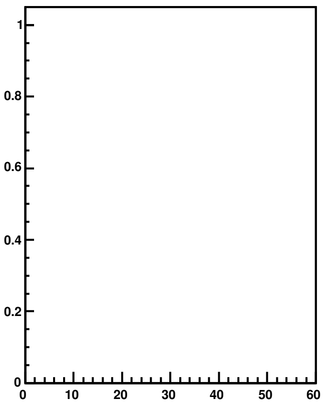


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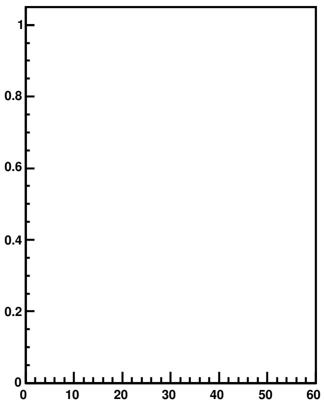

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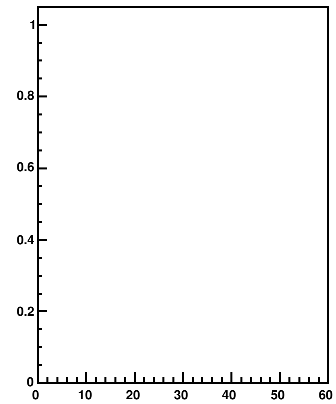


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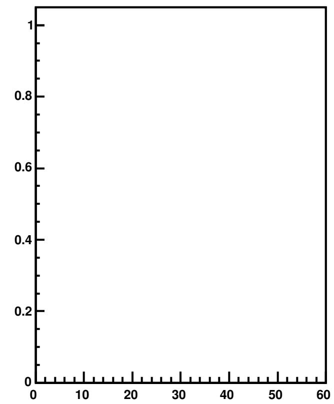


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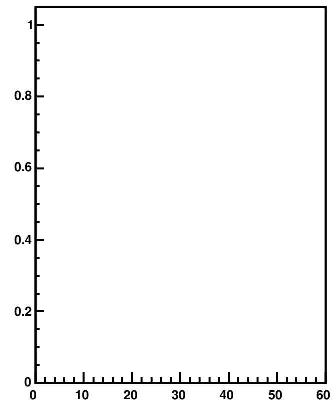


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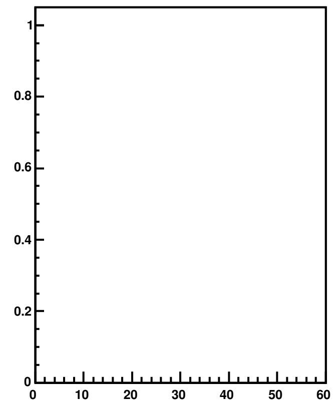


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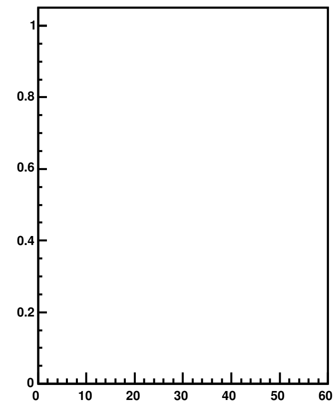


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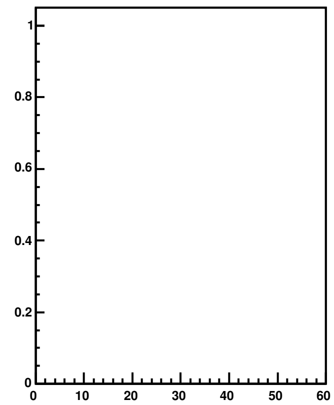


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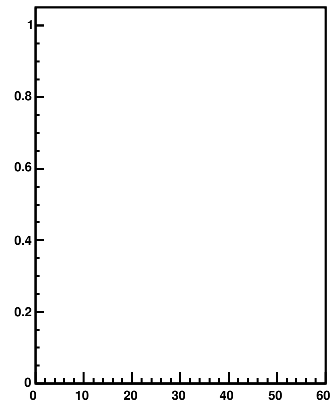


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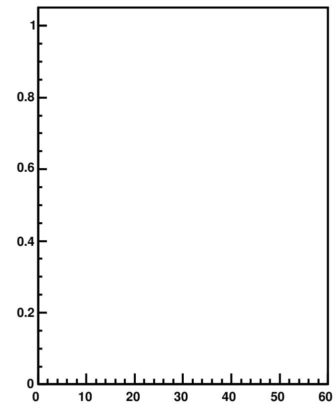


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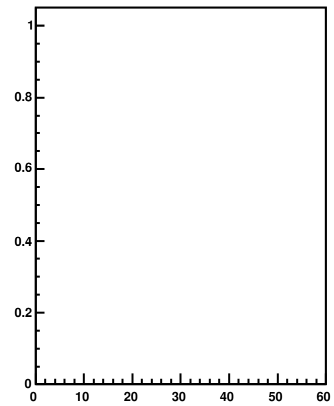


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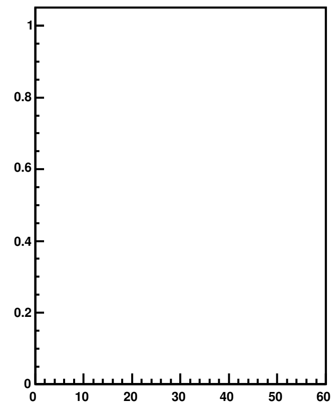


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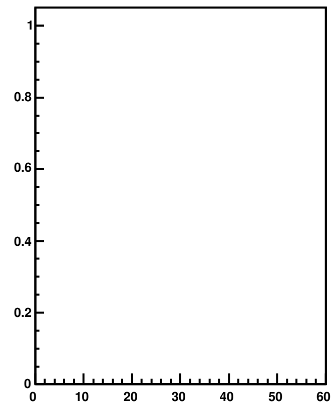


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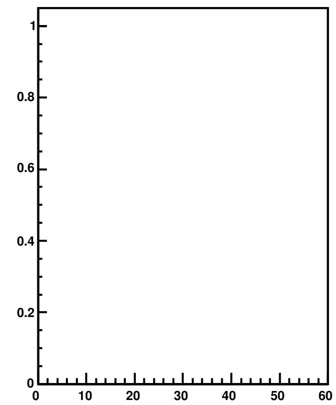


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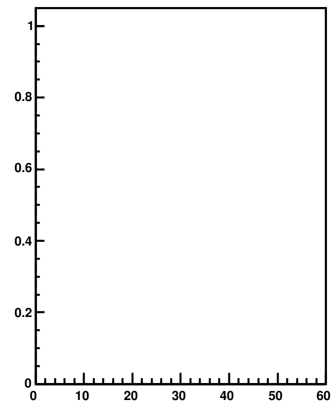


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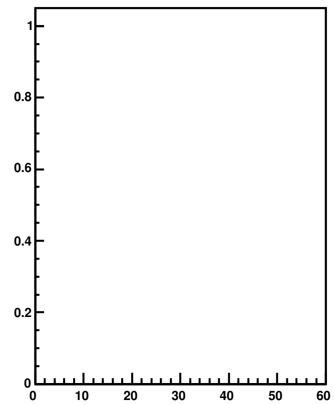


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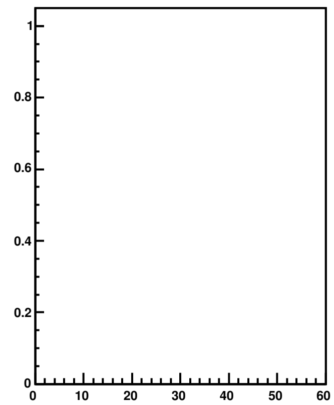

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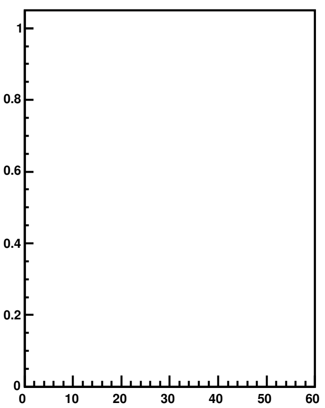

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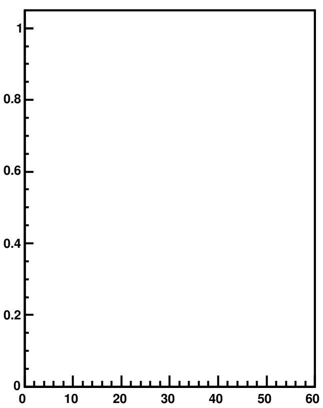

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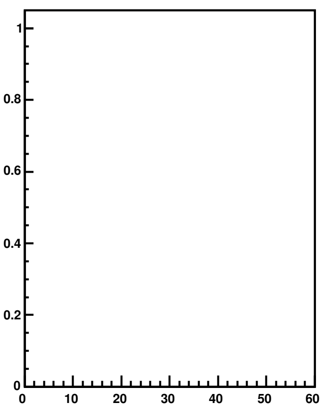

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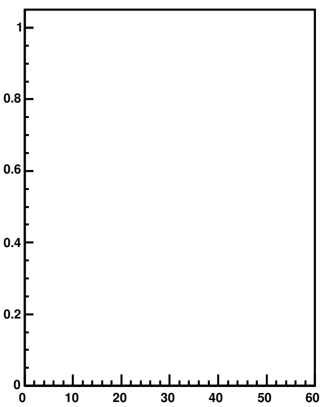

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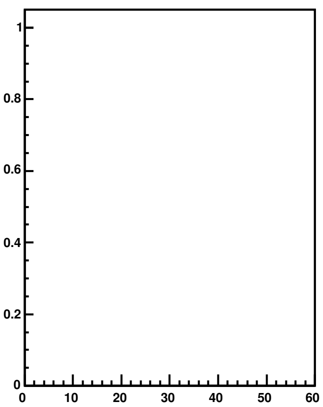

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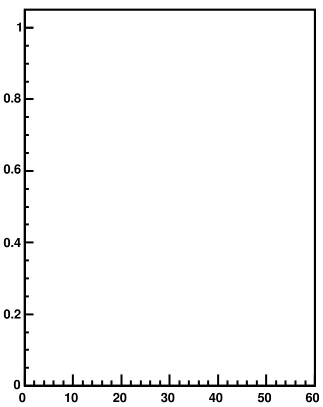

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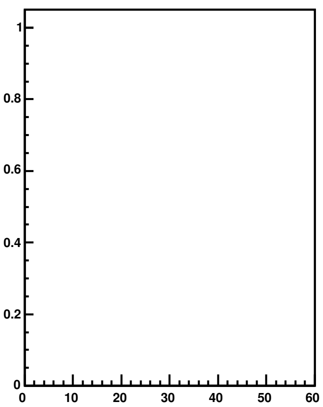

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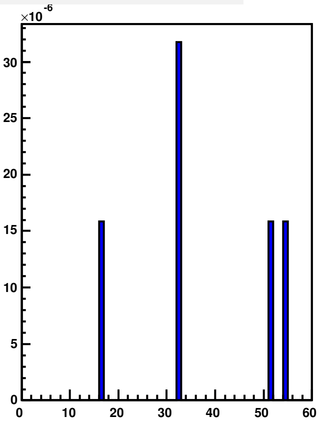


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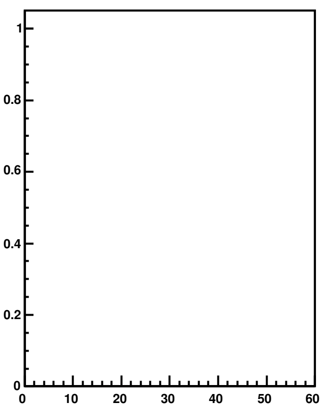

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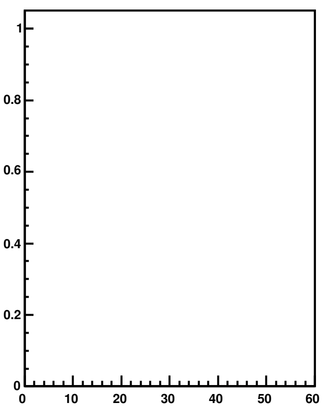

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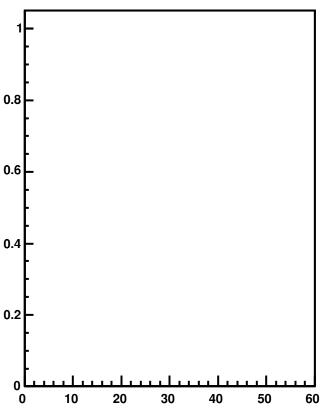

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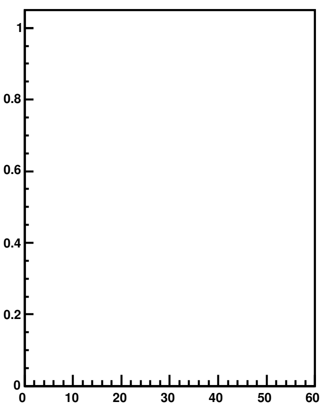

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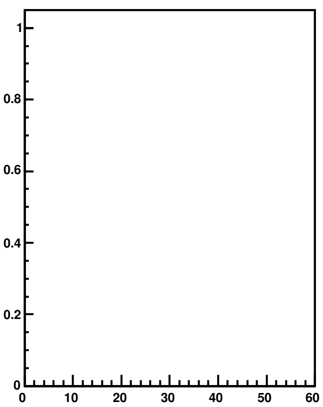

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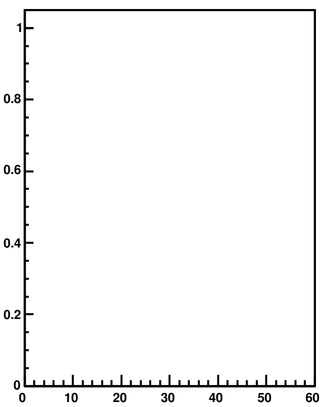

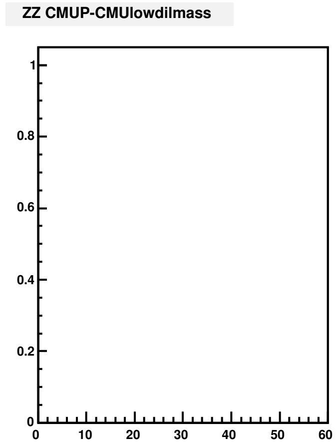
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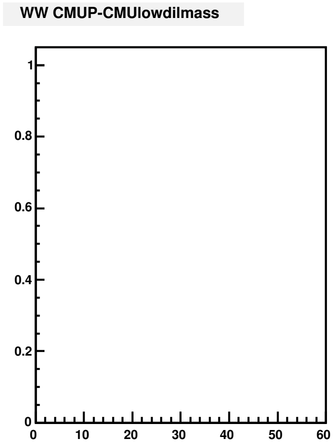
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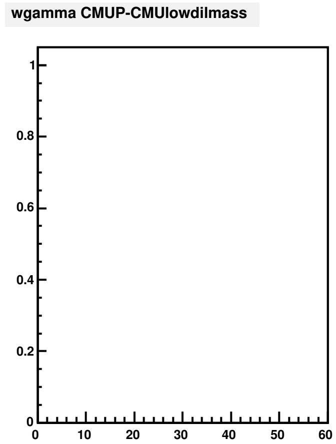
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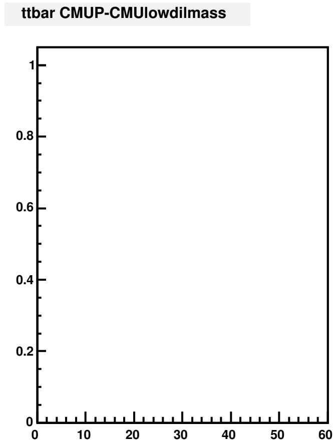
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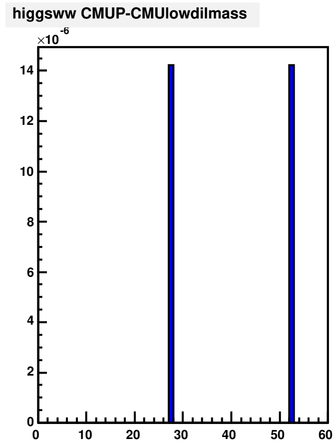
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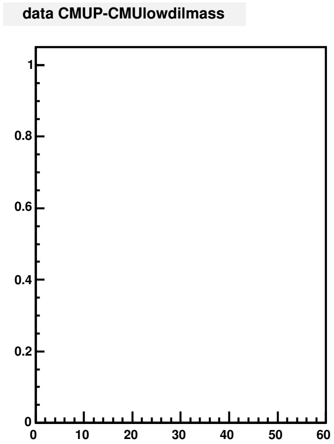
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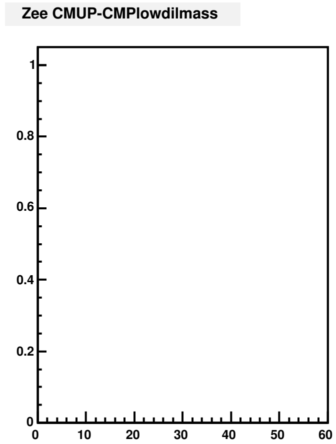
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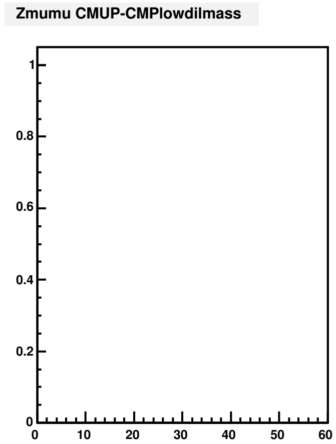
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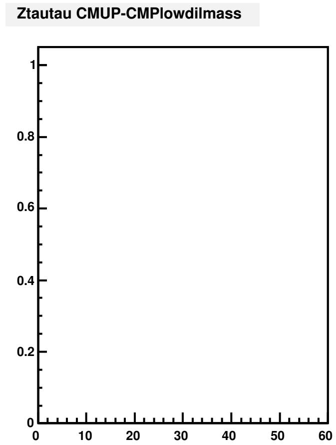
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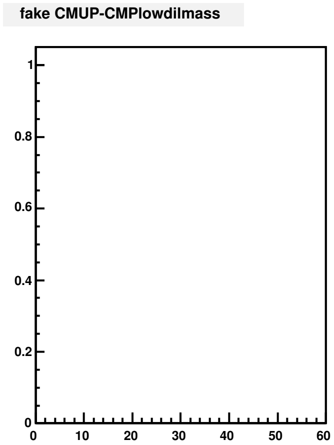
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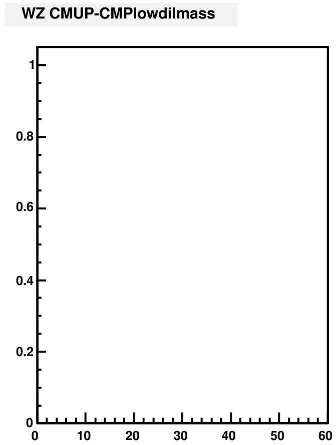
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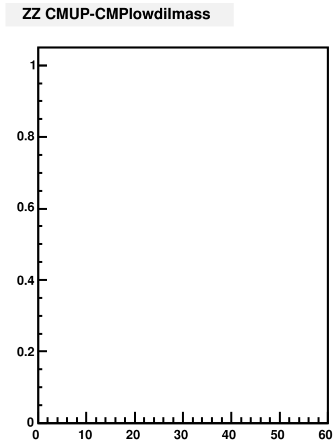
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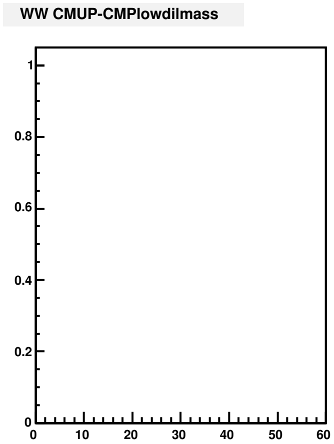
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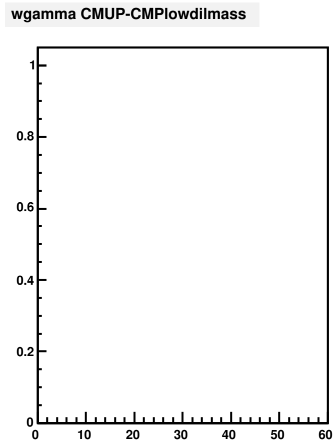
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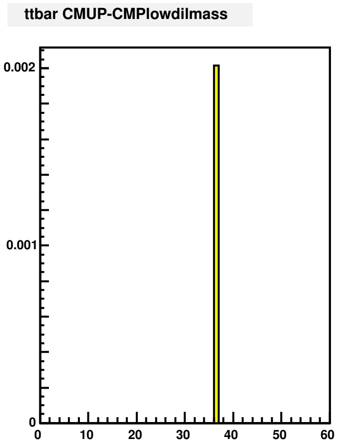
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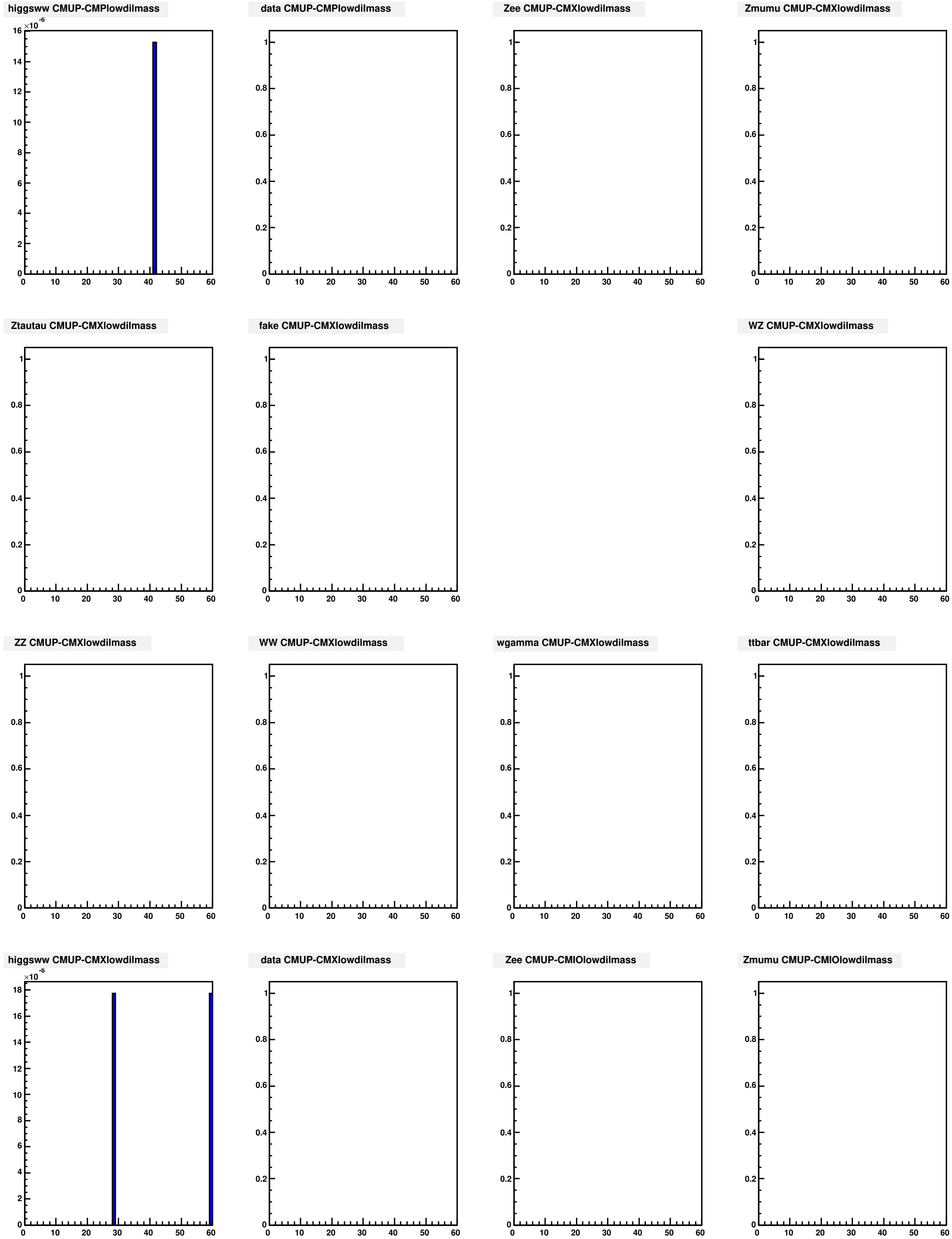
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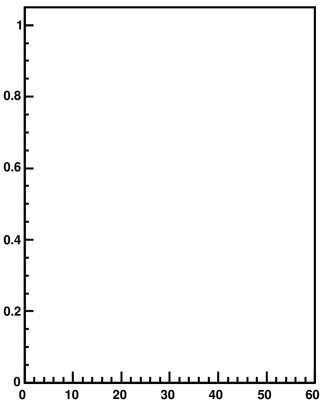


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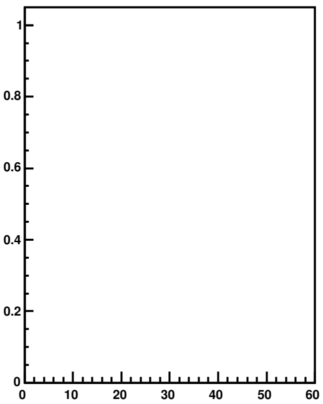


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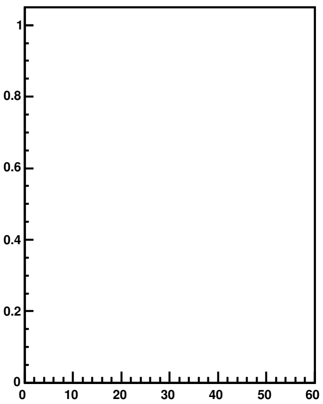


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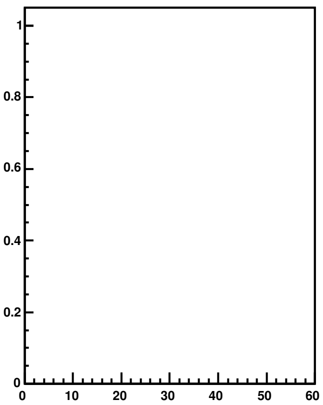


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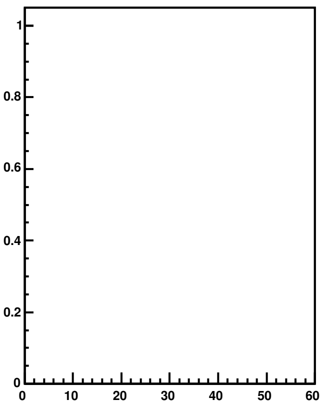


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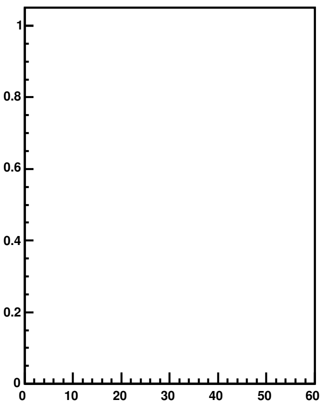


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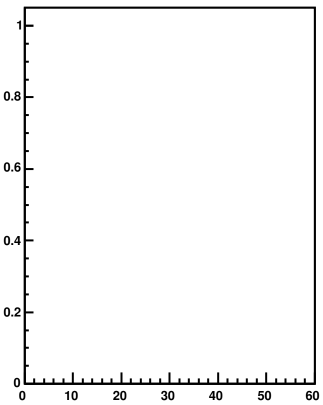


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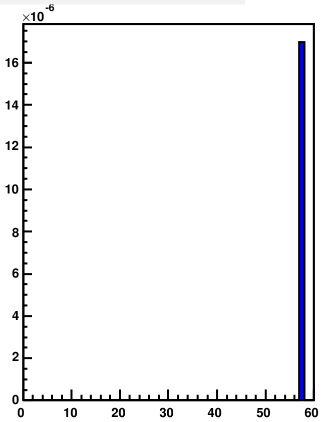


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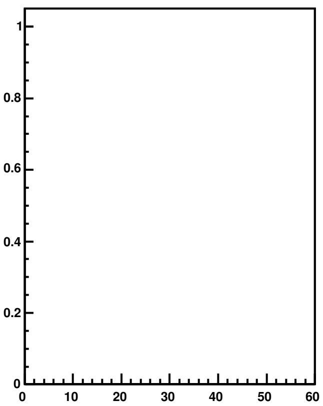


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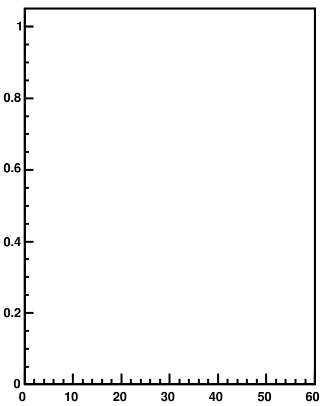


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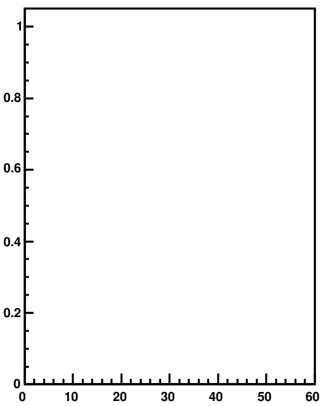


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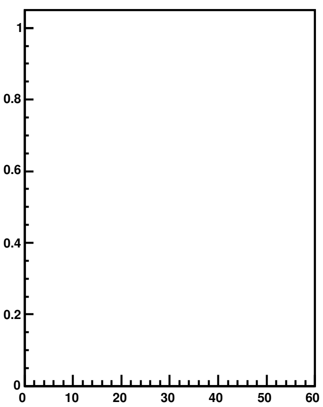


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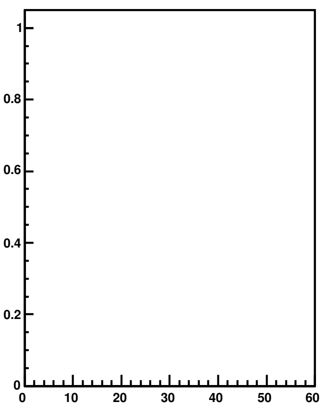


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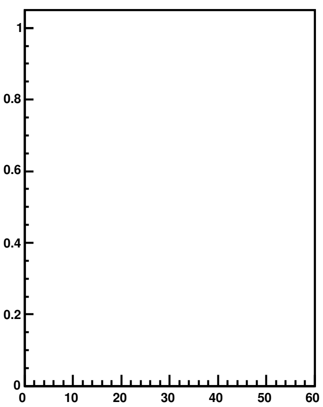

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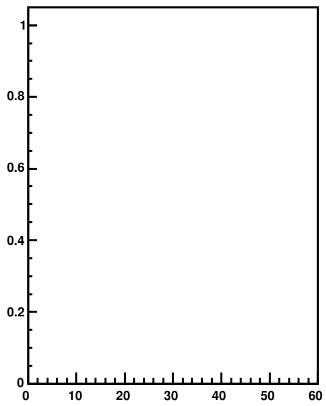


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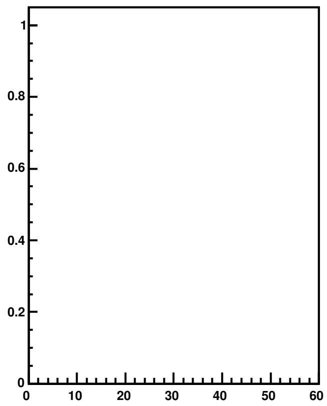


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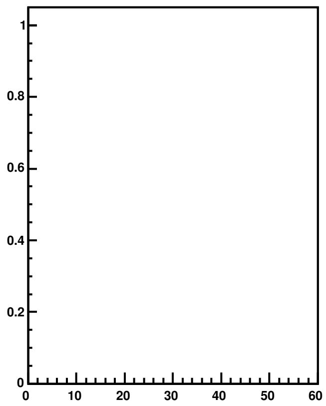
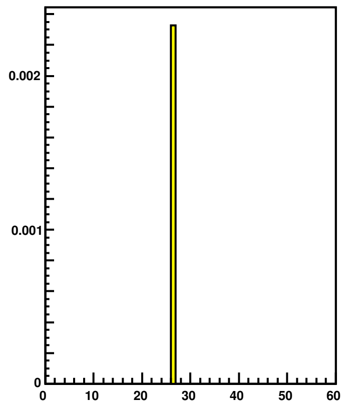
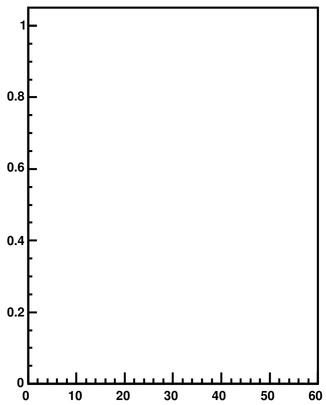


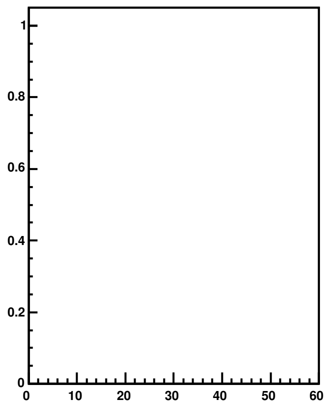

ttbar CMX-CMXlowdilmass



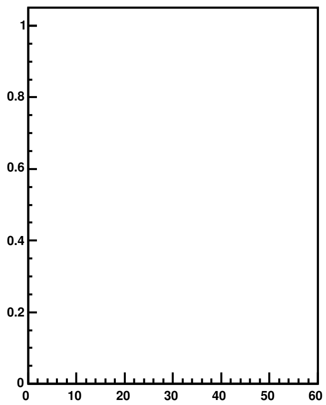

higgsww CMX-CMXlowdilmass



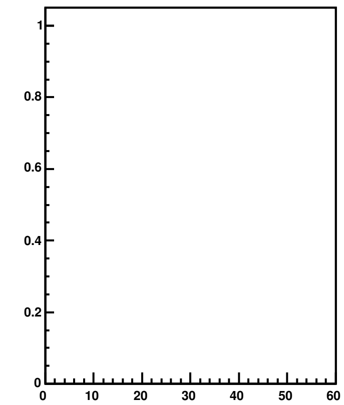

data CMX-CMXlowdilmass



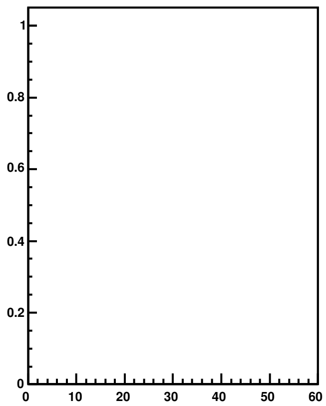

Zee CMX-CMUlowdilmass



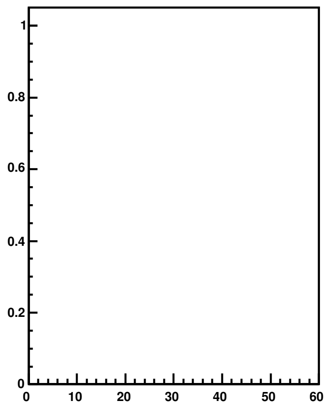

Zmumu CMX-CMUlowdilmass



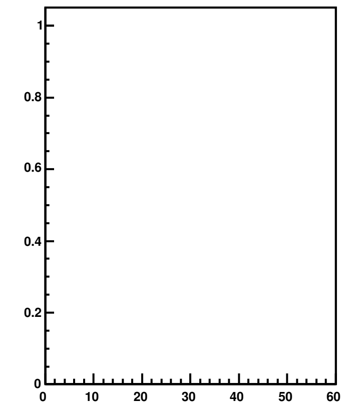

Ztautau CMX-CMUlowdilmass



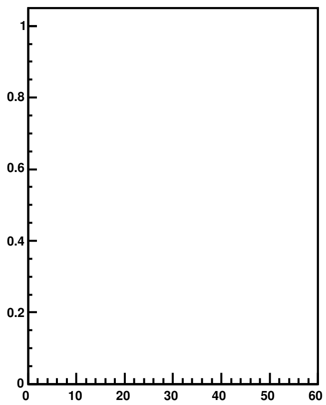

fake CMX-CMUlowdilmass



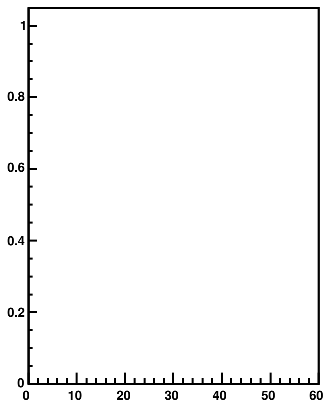

WZ CMX-CMUlowdilmass



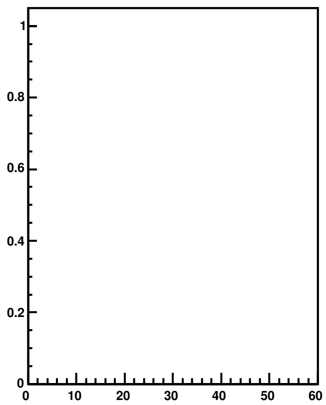

ZZ CMX-CMUlowdilmass



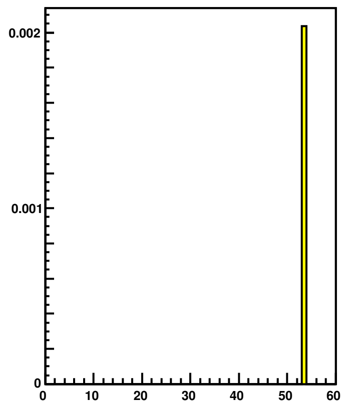

WW CMX-CMUlowdilmass

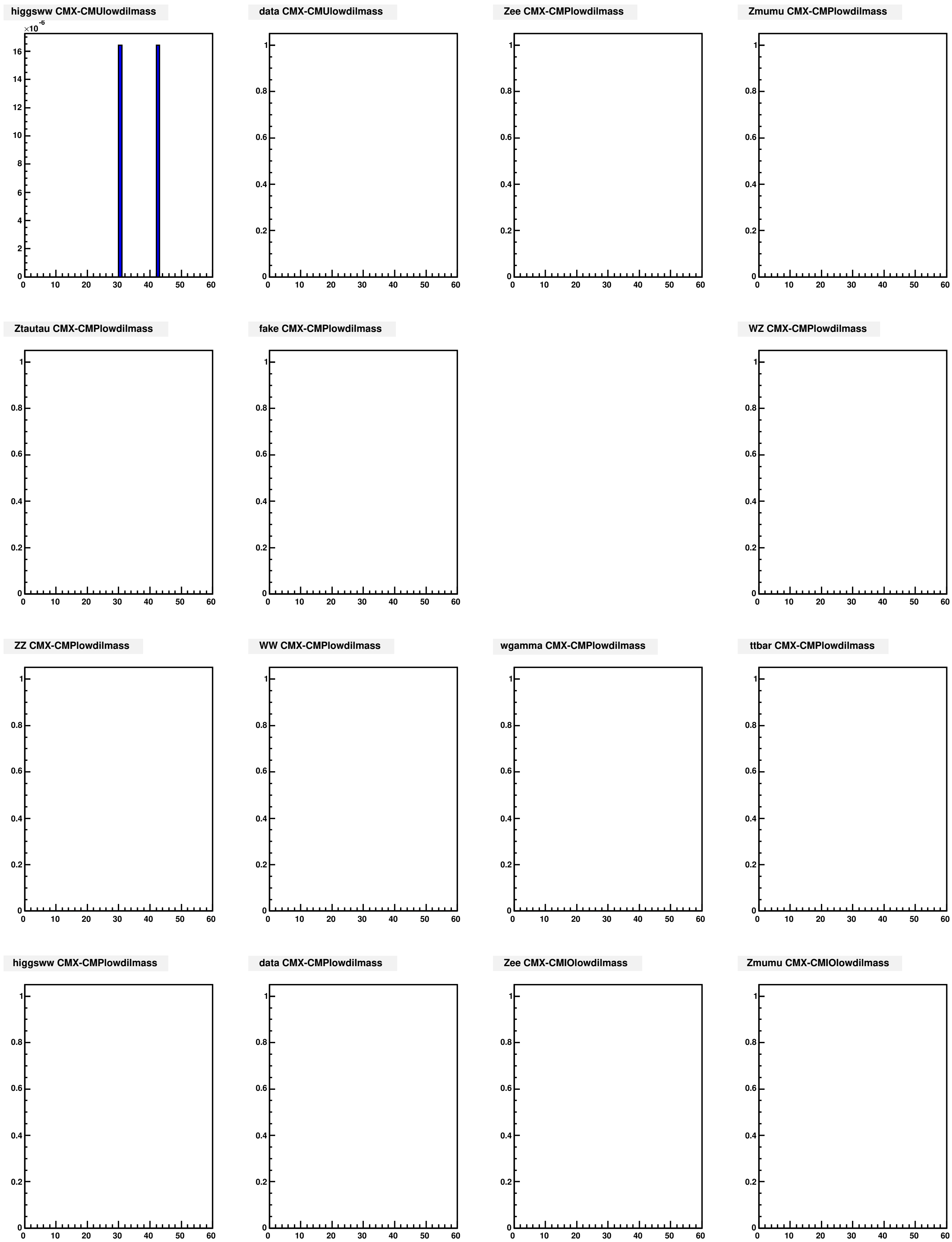



wgamma CMX-CMUlowdilmass



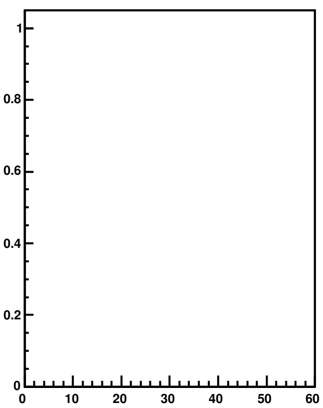

ttbar CMX-CMUlowdilmass



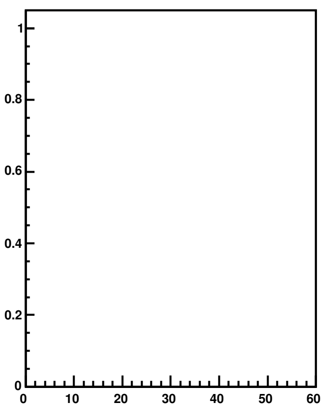


higgsww CMX-CMUlowdilmass
data CMX-CMUlowdilmass
Zee CMX-CMPlowdilmass
Zmumu CMX-CMPlowdilmass
Ztautau CMX-CMPlowdilmass
fake CMX-CMPlowdilmass
WZ CMX-CMPlowdilmass
ZZ CMX-CMPlowdilmass
WW CMX-CMPlowdilmass
wgamma CMX-CMPlowdilmass
ttbar CMX-CMPlowdilmass
higgsww CMX-CMPlowdilmass
data CMX-CMPlowdilmass
Zee CMX-CMIOlowdilmass
Zmumu CMX-CMIOlowdilmass

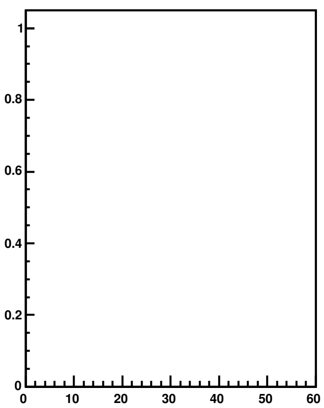
Ztautau CMX-CMIOlowdilmass



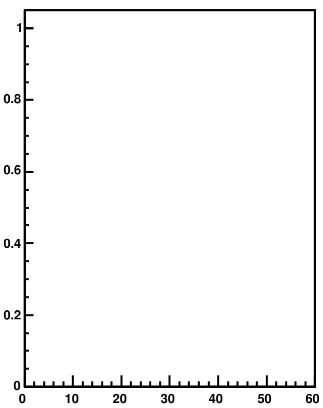

fake CMX-CMIOlowdilmass



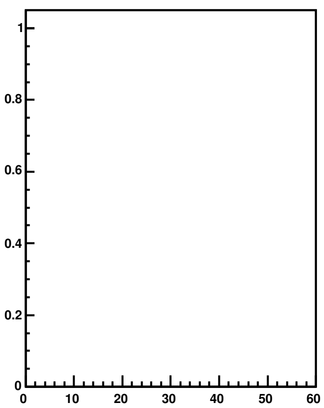

WZ CMX-CMIOlowdilmass



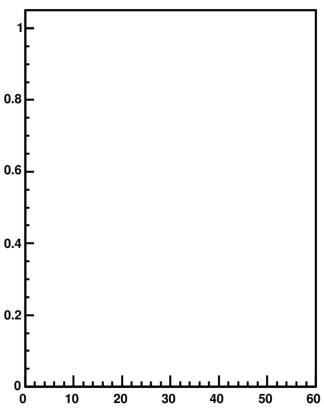

ZZ CMX-CMIOlowdilmass



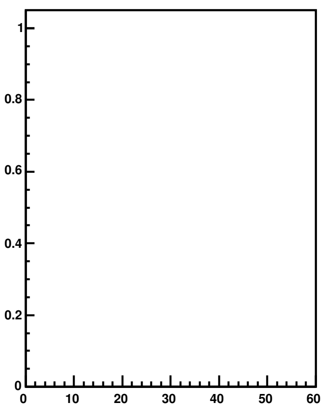

WW CMX-CMIOlowdilmass



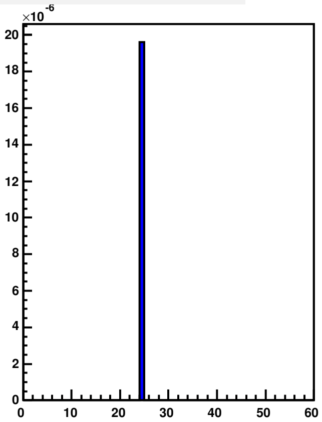

wgamma CMX-CMIOlowdilmass



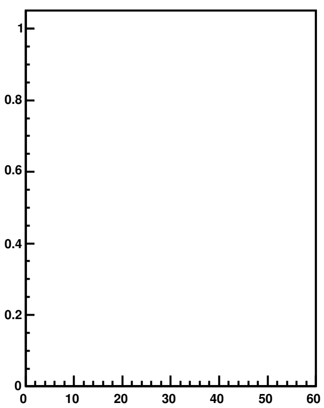

ttbar CMX-CMIOlowdilmass



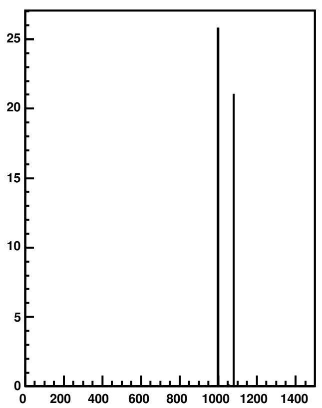

higgsww CMX-CMIOlowdilmass



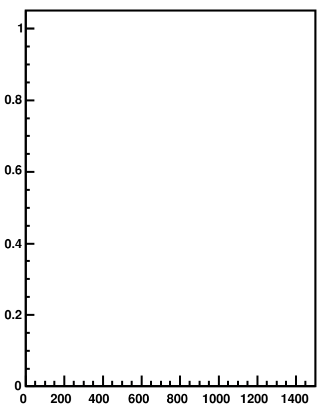

data CMX-CMIOlowdilmass



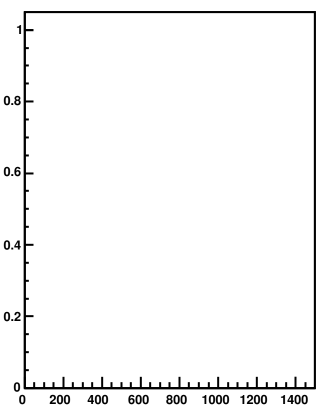

Zee luminosity



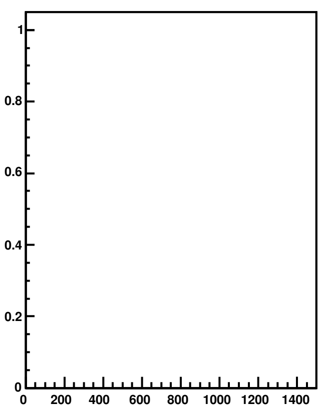

Zmumu luminosity



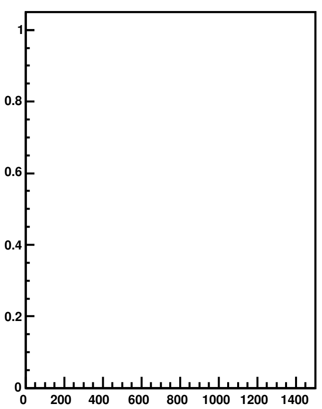

Ztautau luminosity

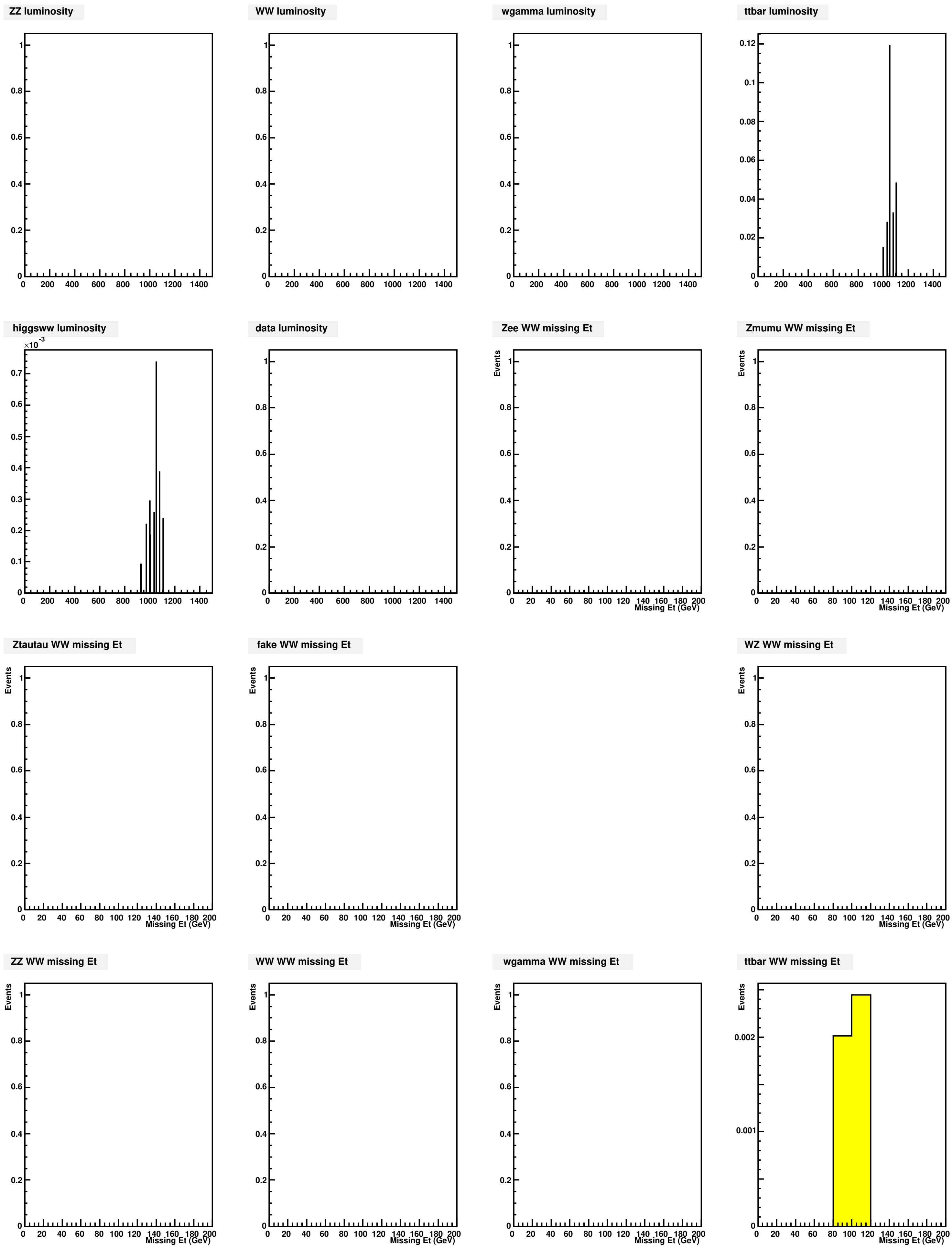



fake luminosity

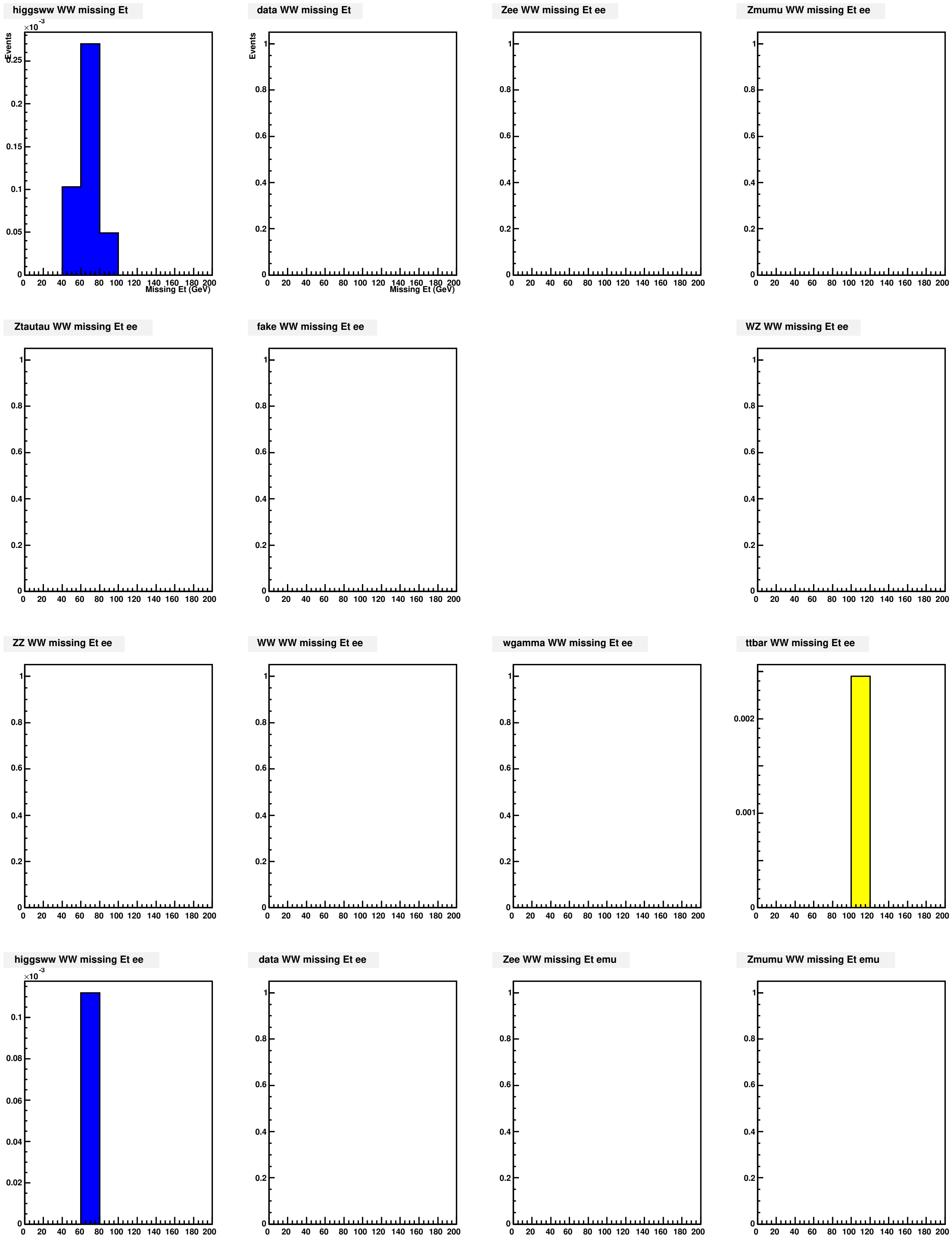


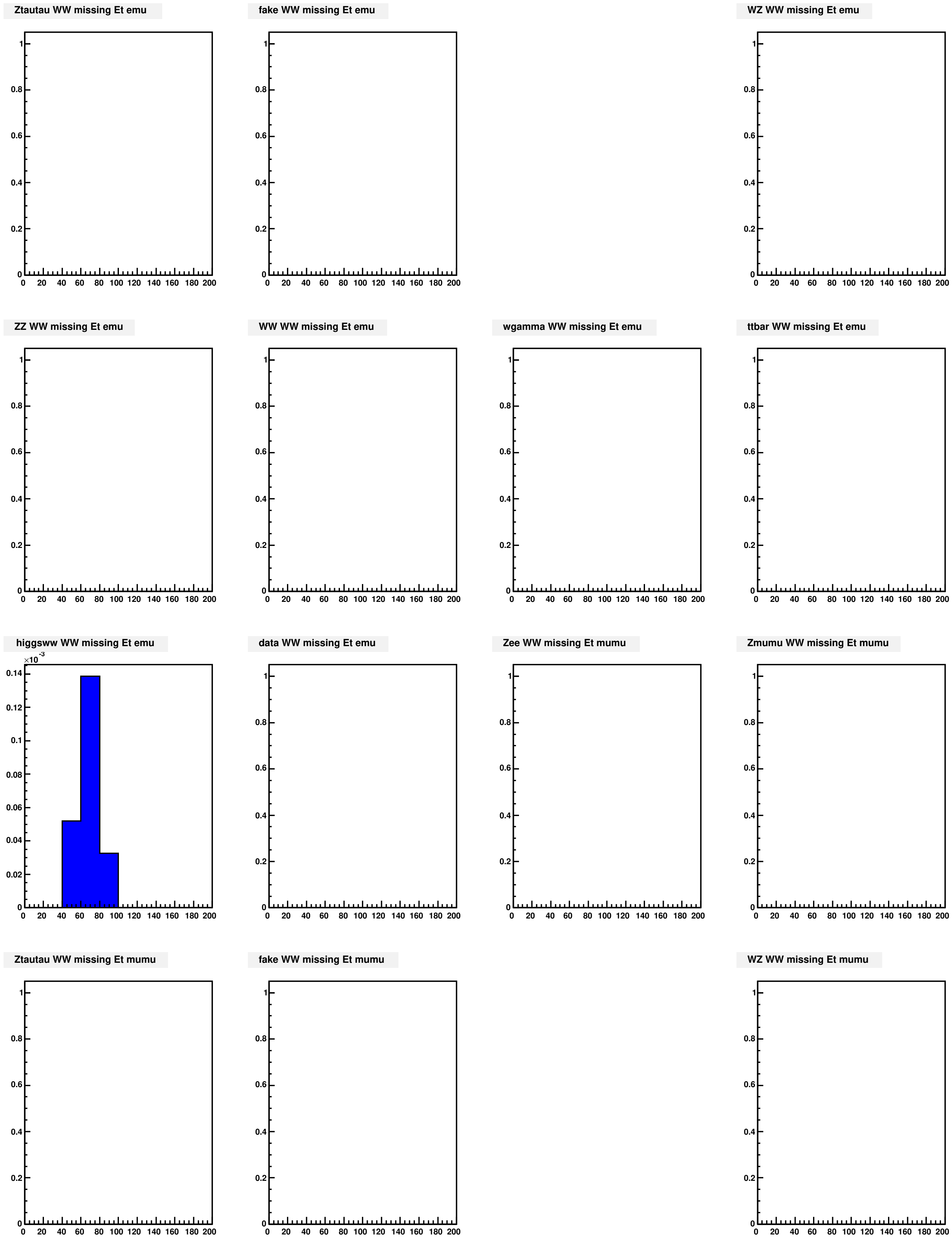

WZ luminosity



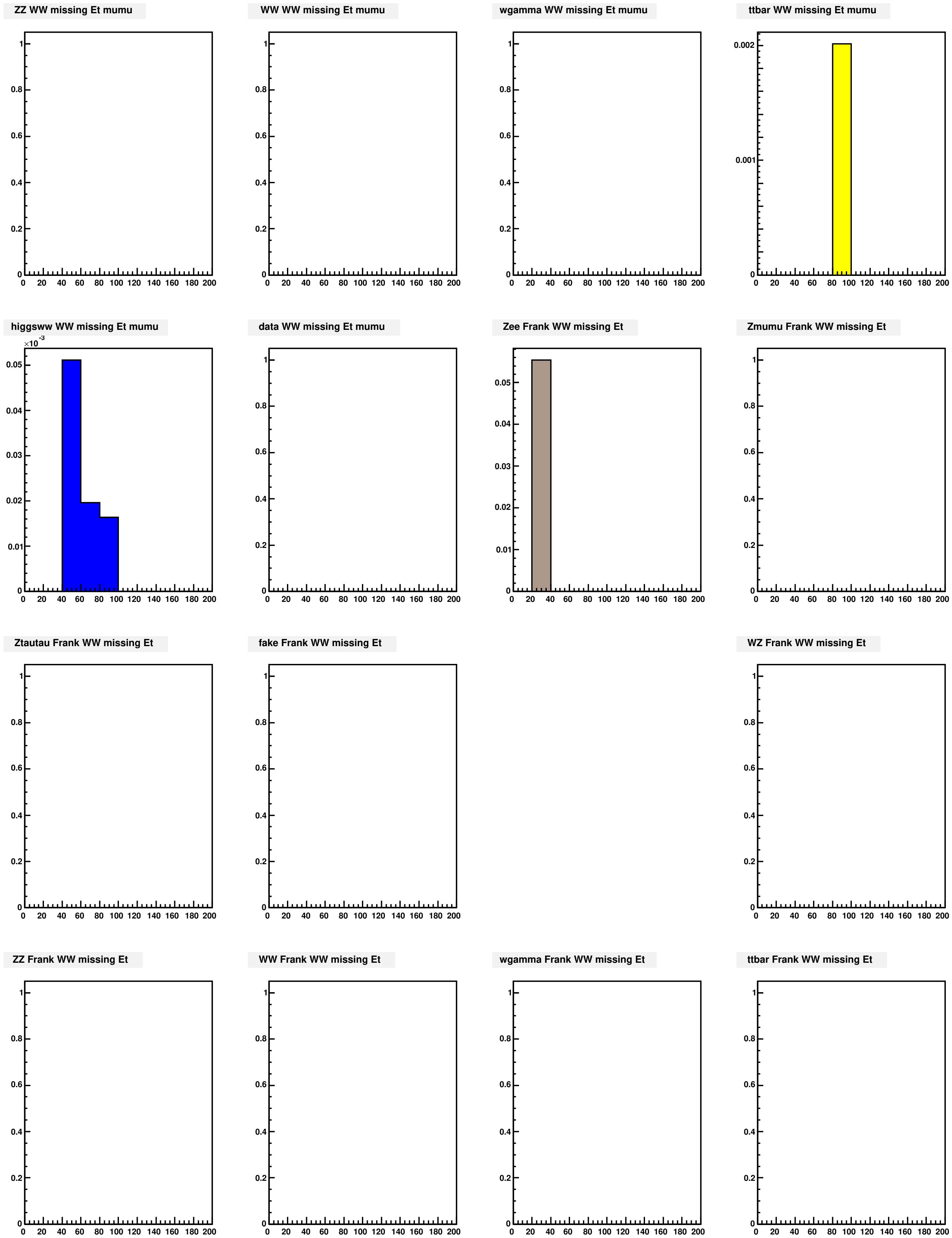


ZZ luminosity
WW luminosity
wgamma luminosity
ttbar luminosity
higgsww luminosity
data luminosity
Zee WW missing Et
Zmumu WW missing Et
Ztautau WW missing Et
fake WW missing Et
WZ WW missing Et
ZZ WW missing Et
WW WW missing Et
wgamma WW missing Et
ttbar WW missing Et
Events
Missing Et (GeV)
×10^-3

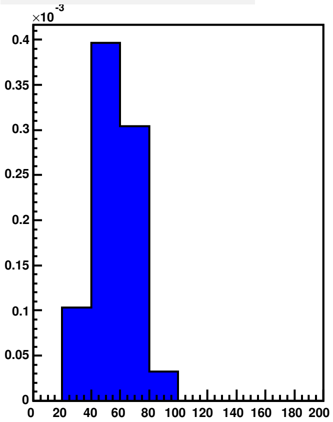

higgsww WW missing Et
×10^-3
Events
Missing Et (GeV)
data WW missing Et
Events
Missing Et (GeV)
Zee WW missing Et ee
Zmumu WW missing Et ee
Ztautau WW missing Et ee
fake WW missing Et ee
WZ WW missing Et ee
ZZ WW missing Et ee
WW WW missing Et ee
wgamma WW missing Et ee
ttbar WW missing Et ee
higgsww WW missing Et ee
×10^-3
data WW missing Et ee
Zee WW missing Et emu
Zmumu WW missing Et emu



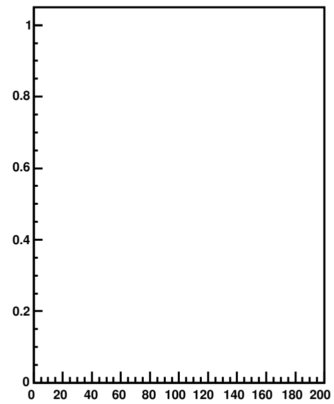
Ztautau WW missing Et emu
fake WW missing Et emu
WZ WW missing Et emu
ZZ WW missing Et emu
WW WW missing Et emu
wgamma WW missing Et emu
ttbar WW missing Et emu
higgsww WW missing Et emu
data WW missing Et emu
Zee WW missing Et mumu
Zmumu WW missing Et mumu
Ztautau WW missing Et mumu
fake WW missing Et mumu
WZ WW missing Et mumu


ZZ WW missing Et mumu
WW WW missing Et mumu
wgamma WW missing Et mumu
ttbar WW missing Et mumu
higgsww WW missing Et mumu
×10^-3
data WW missing Et mumu
Zee Frank WW missing Et
Zmumu Frank WW missing Et
Ztautau Frank WW missing Et
fake Frank WW missing Et
WZ Frank WW missing Et
ZZ Frank WW missing Et
WW Frank WW missing Et
wgamma Frank WW missing Et
ttbar Frank WW missing Et
0 20 40 60 80 100 120 140 160 180 200

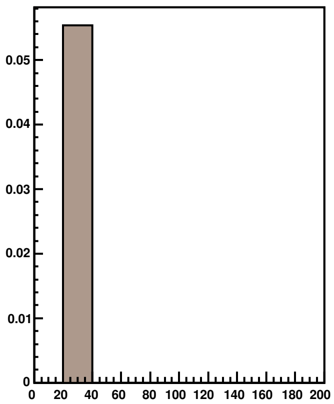
higgsww Frank WW missing Et



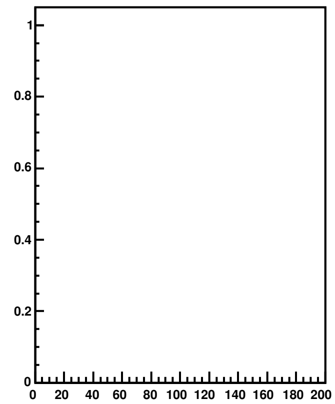
data Frank WW missing Et



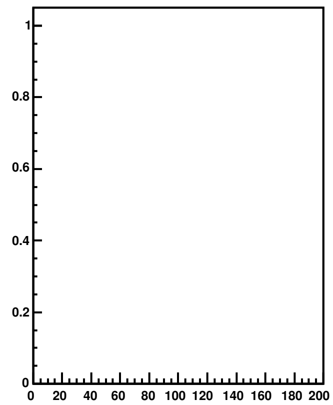
Zee Frank WW missing Et ee



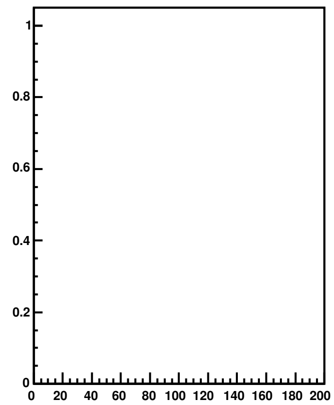
Zmumu Frank WW missing Et ee



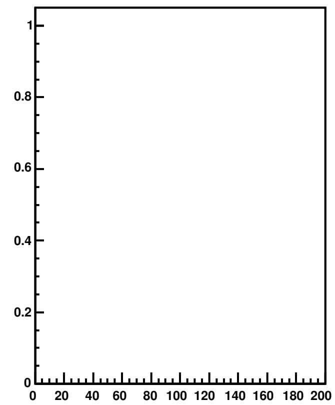
Ztautau Frank WW missing Et ee



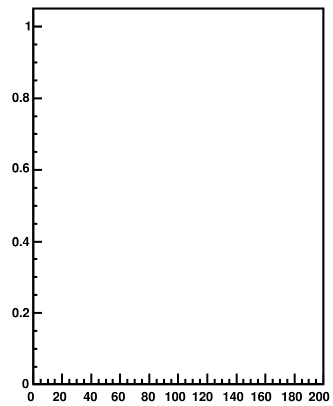
fake Frank WW missing Et ee



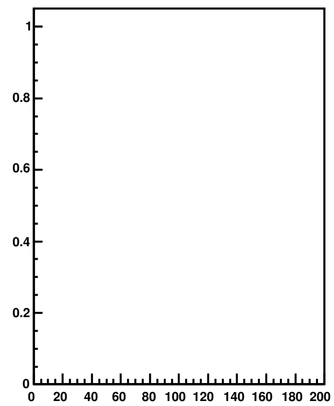
WZ Frank WW missing Et ee



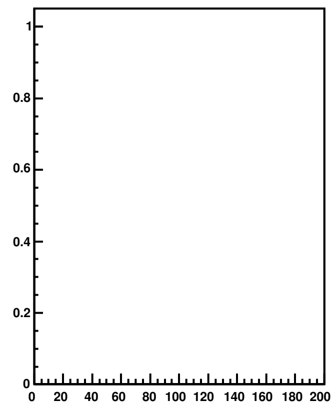
ZZ Frank WW missing Et ee



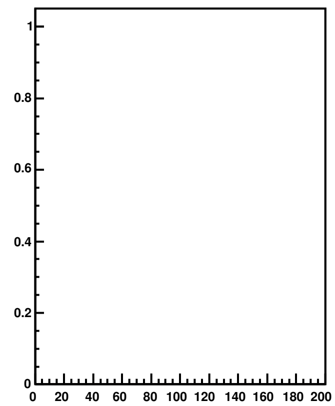
WW Frank WW missing Et ee



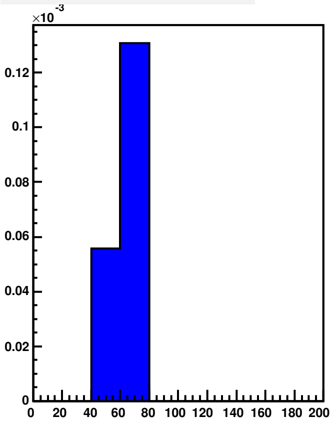
wgamma Frank WW missing Et ee



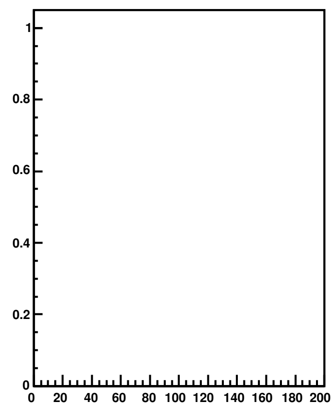
ttbar Frank WW missing Et ee



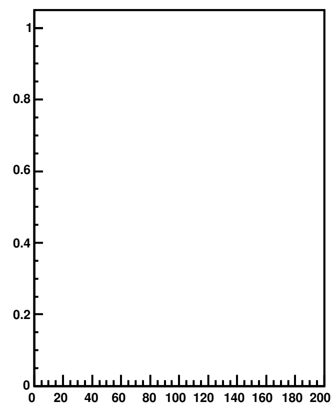
higgsww Frank WW missing Et ee



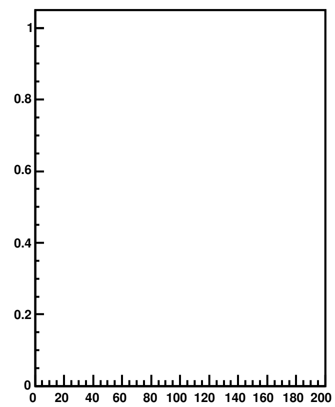
data Frank WW missing Et ee

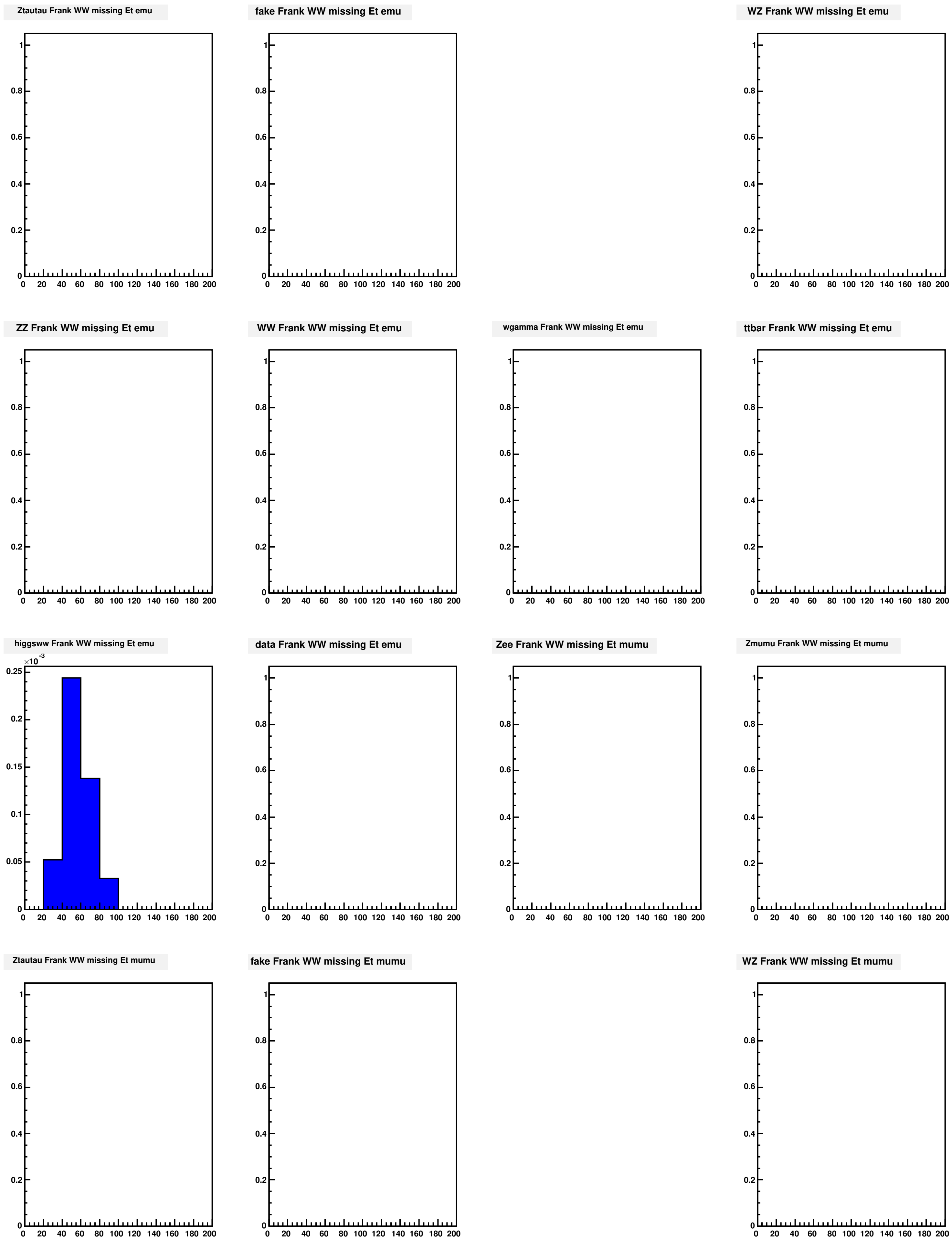


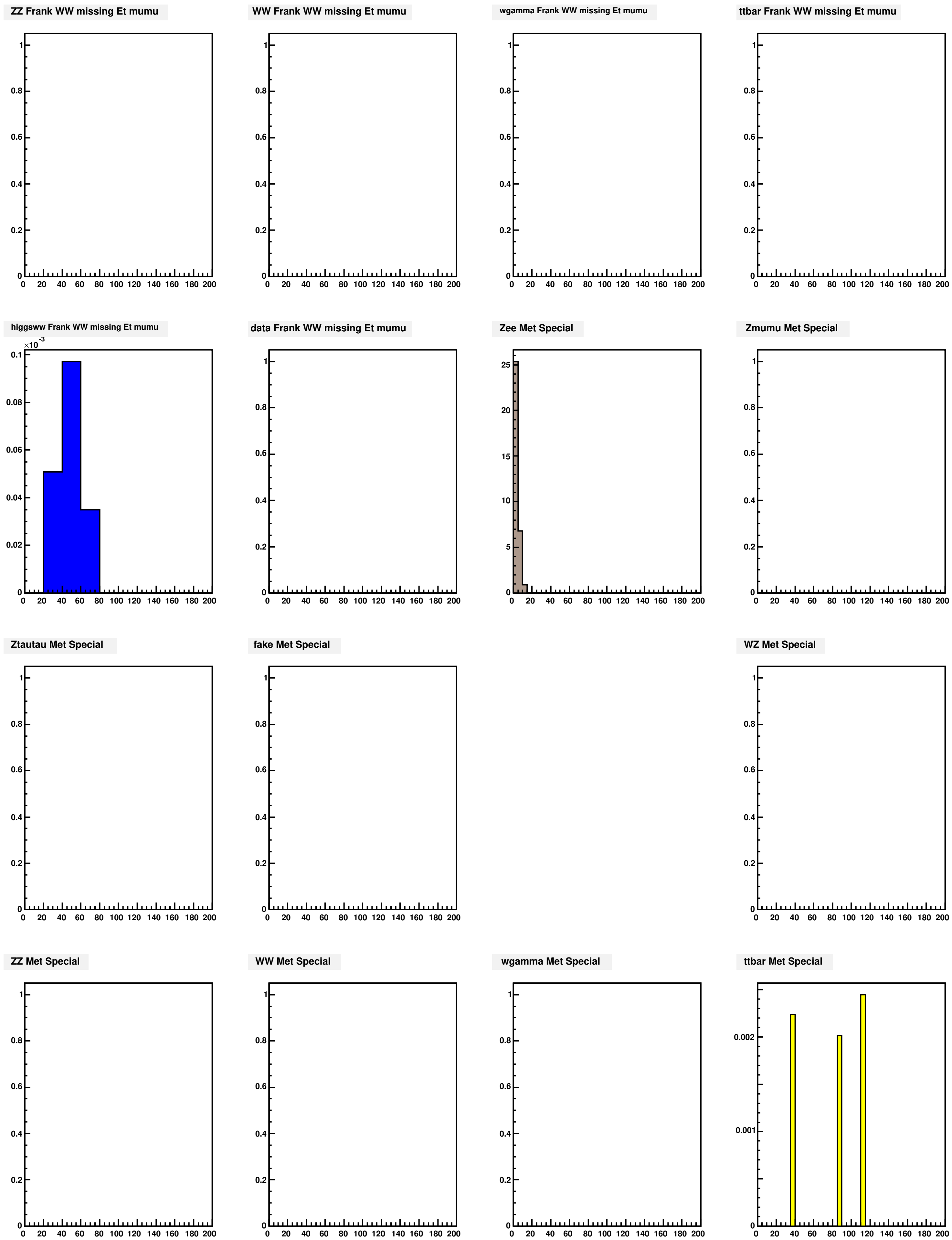
Zee Frank WW missing Et emu



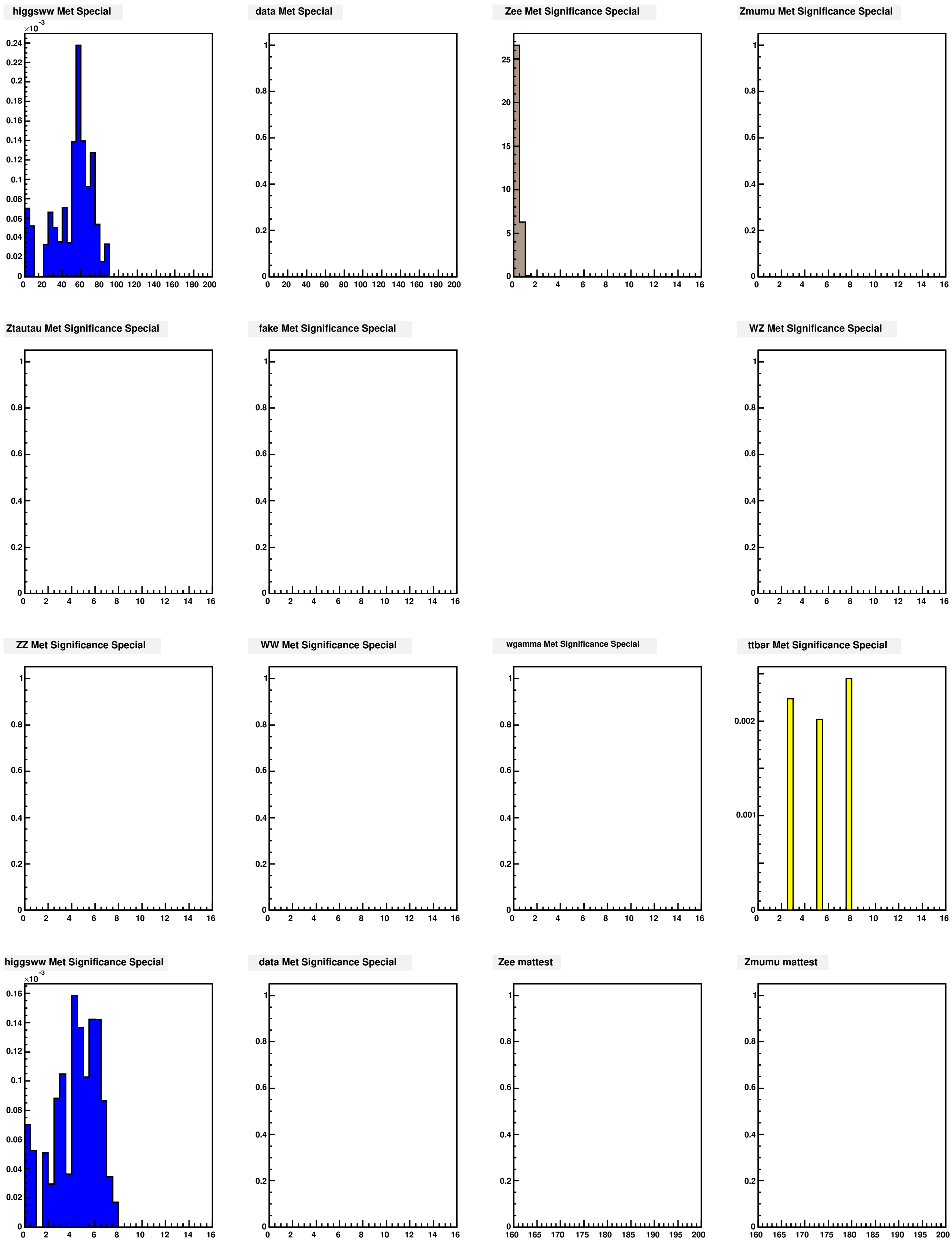
Zmumu Frank WW missing Et emu



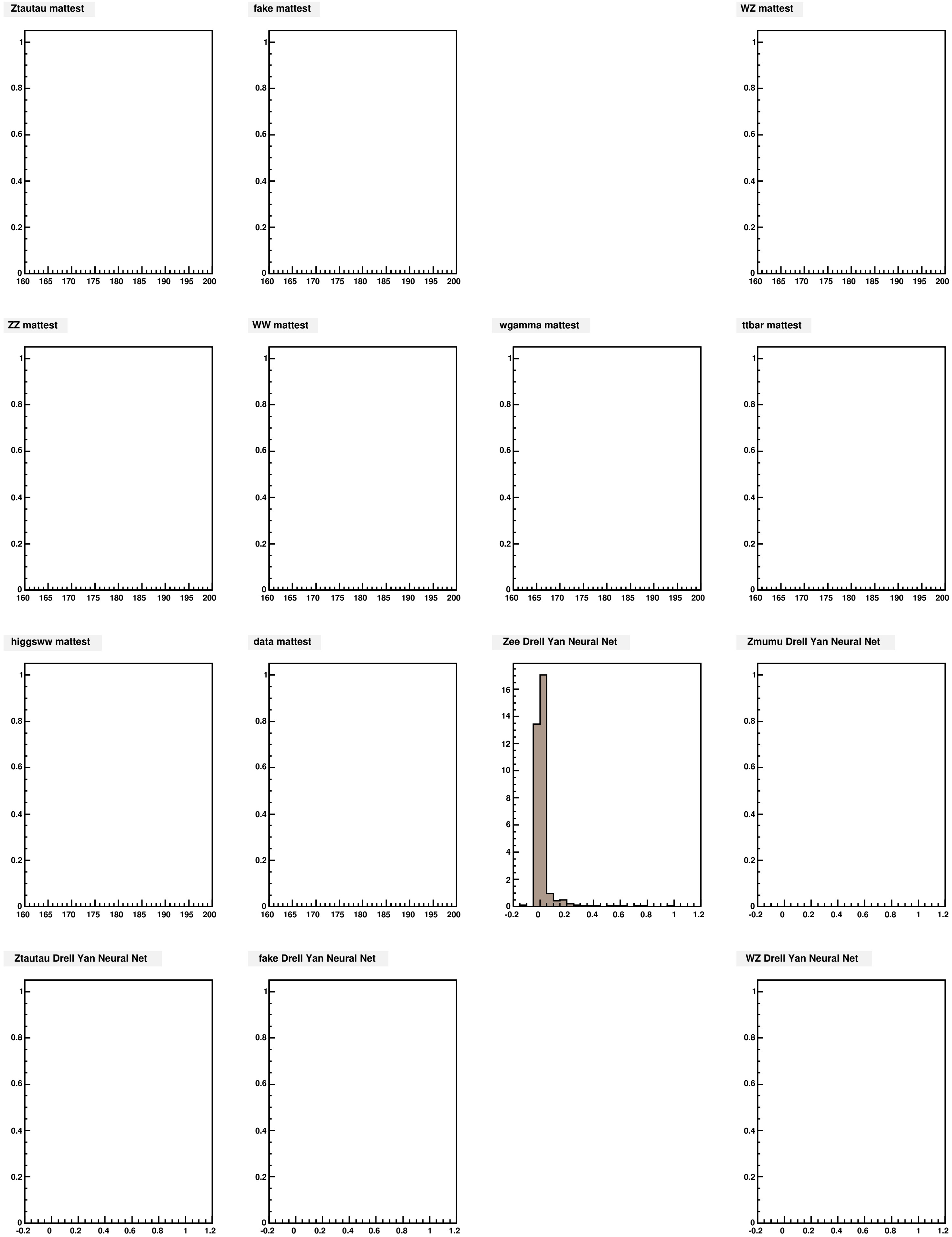

Ztautau Frank WW missing Et emu
fake Frank WW missing Et emu
WZ Frank WW missing Et emu
ZZ Frank WW missing Et emu
WW Frank WW missing Et emu
wgamma Frank WW missing Et emu
ttbar Frank WW missing Et emu
higgsww Frank WW missing Et emu
×10^-3
data Frank WW missing Et emu
Zee Frank WW missing Et mumu
Zmumu Frank WW missing Et mumu
Ztautau Frank WW missing Et mumu
fake Frank WW missing Et mumu
WZ Frank WW missing Et mumu

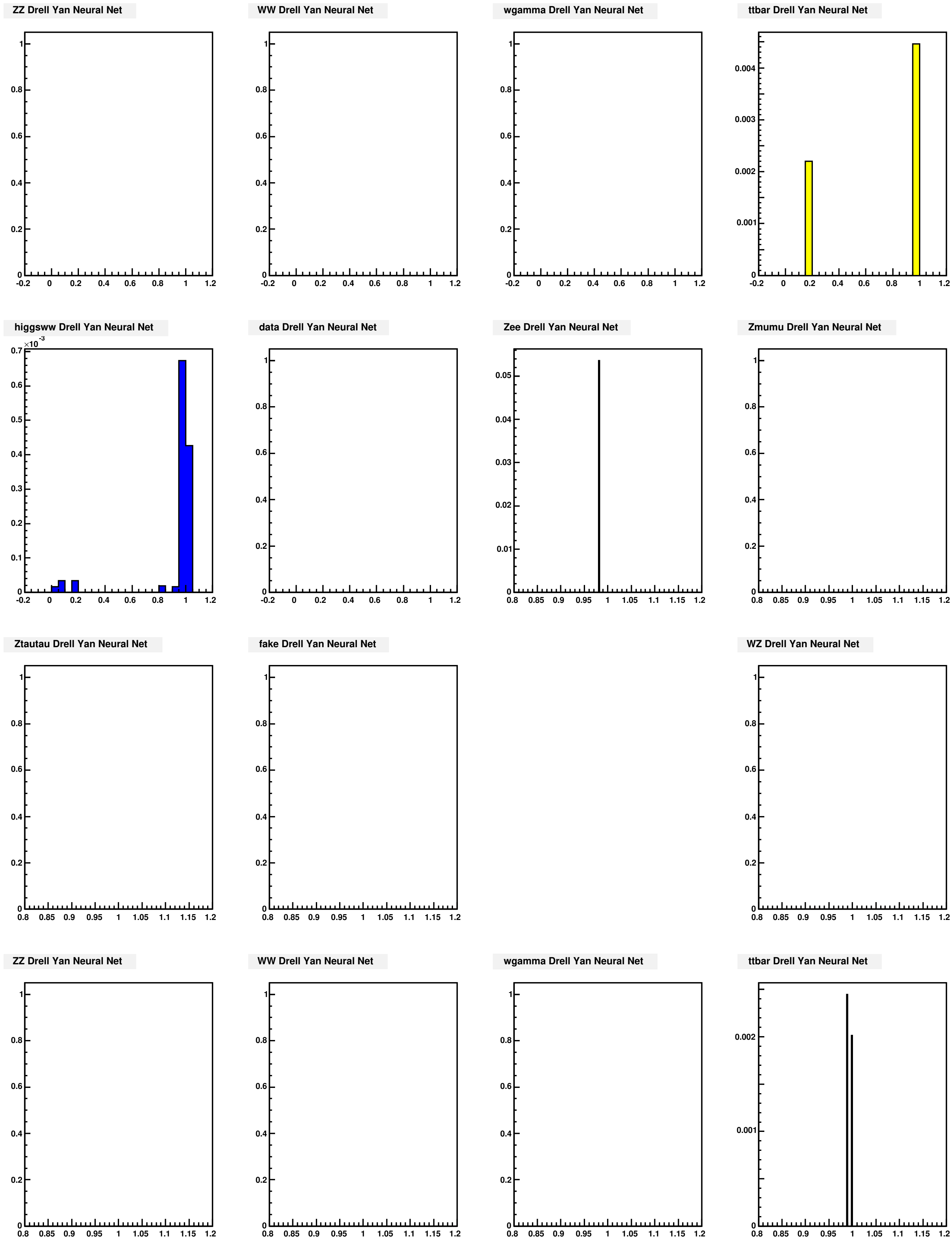


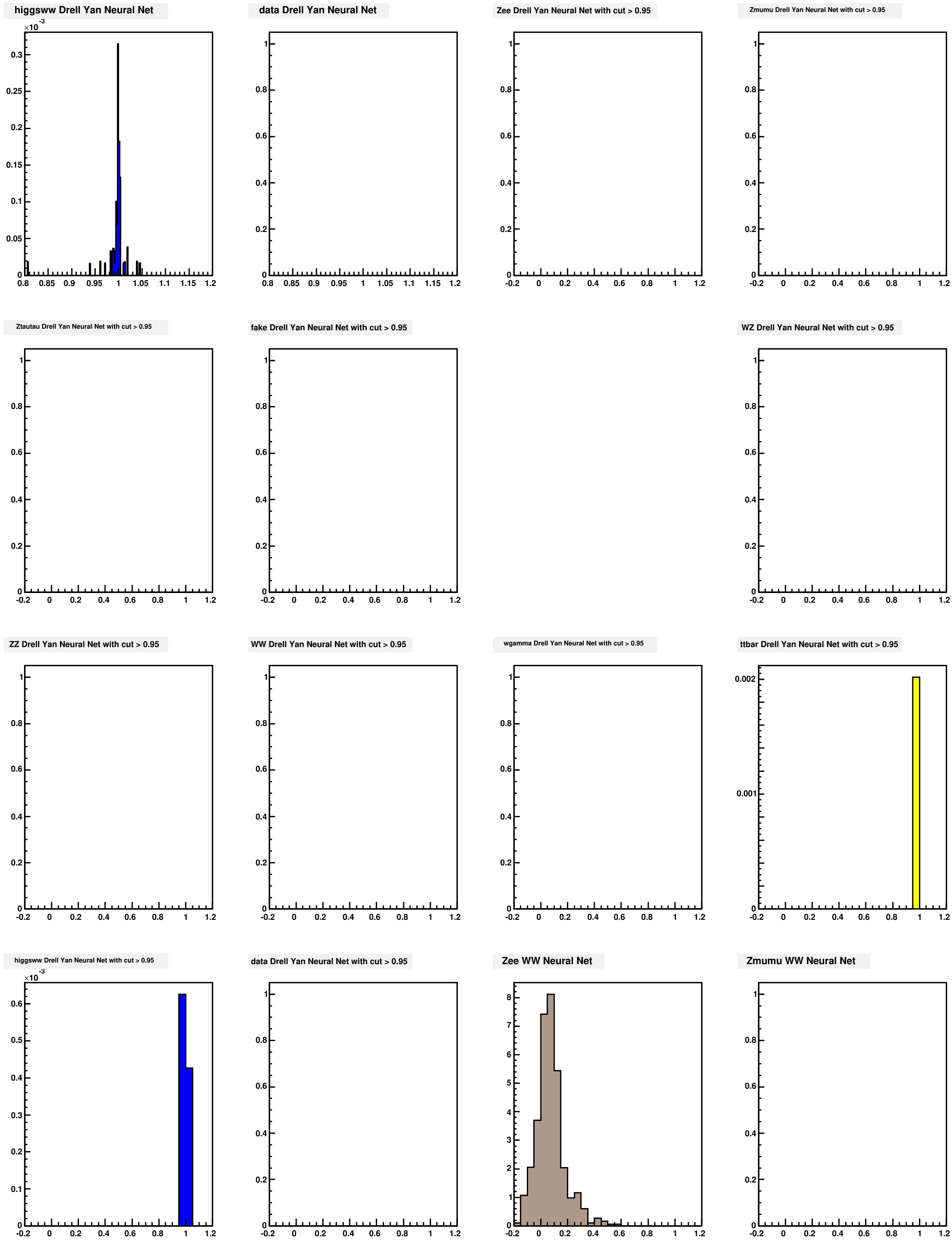
ZZ Frank WW missing Et mumu
WW Frank WW missing Et mumu
wgamma Frank WW missing Et mumu
ttbar Frank WW missing Et mumu
higgsww Frank WW missing Et mumu
×10^-3
data Frank WW missing Et mumu
Zee Met Special
Zmumu Met Special
Ztautau Met Special
fake Met Special
WZ Met Special
ZZ Met Special
WW Met Special
wgamma Met Special
ttbar Met Special



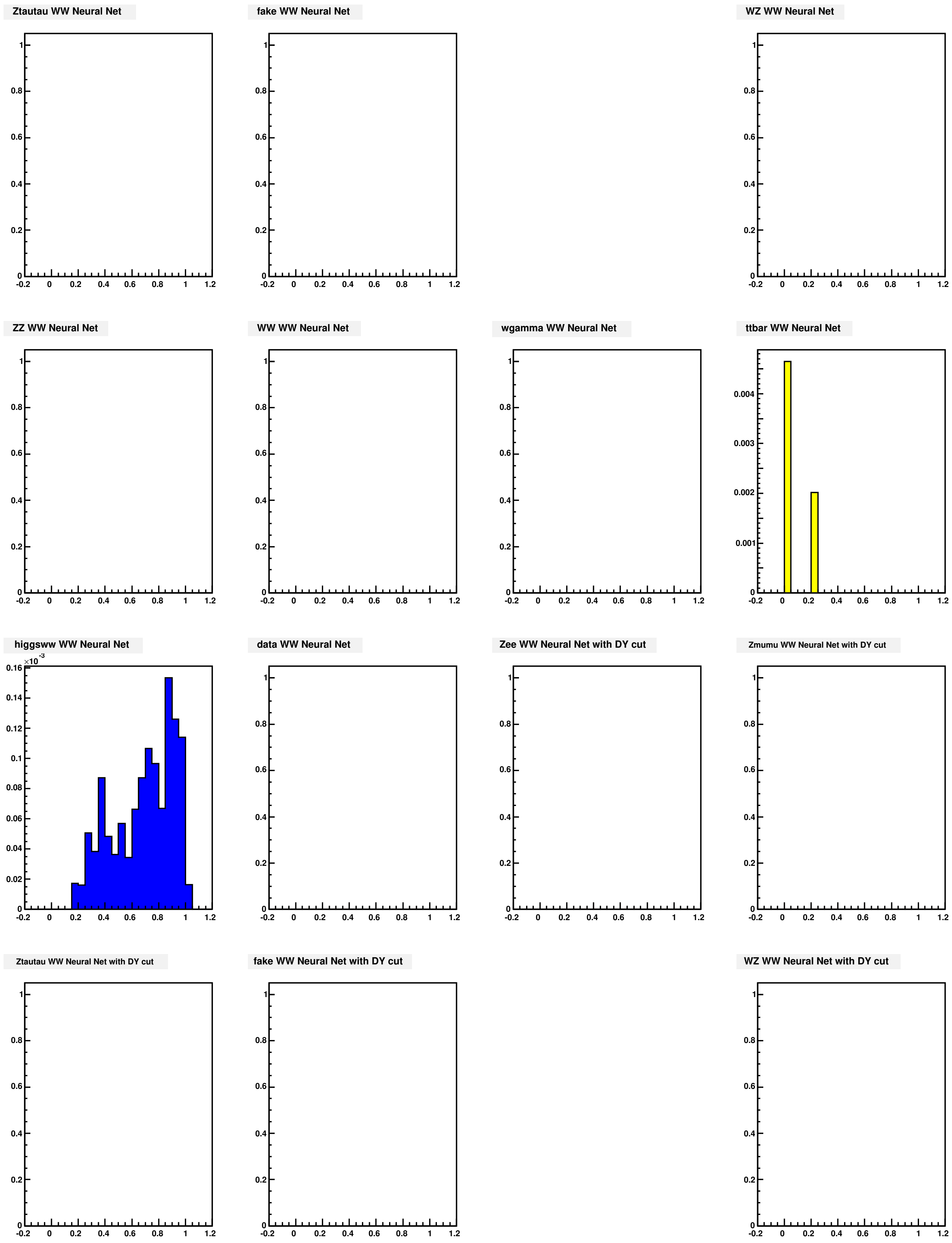
higgsww Met Special
data Met Special
Zee Met Significance Special
Zmumu Met Significance Special
Ztautau Met Significance Special
fake Met Significance Special
WZ Met Significance Special
ZZ Met Significance Special
WW Met Significance Special
wgamma Met Significance Special
ttbar Met Significance Special
higgsww Met Significance Special
data Met Significance Special
Zee mattest
Zmumu mattest


Ztautau mattest
fake mattest
WZ mattest
ZZ mattest
WW mattest
wgamma mattest
ttbar mattest
higgsww mattest
data mattest
Zee Drell Yan Neural Net
Zmumu Drell Yan Neural Net
Ztautau Drell Yan Neural Net
fake Drell Yan Neural Net
WZ Drell Yan Neural Net

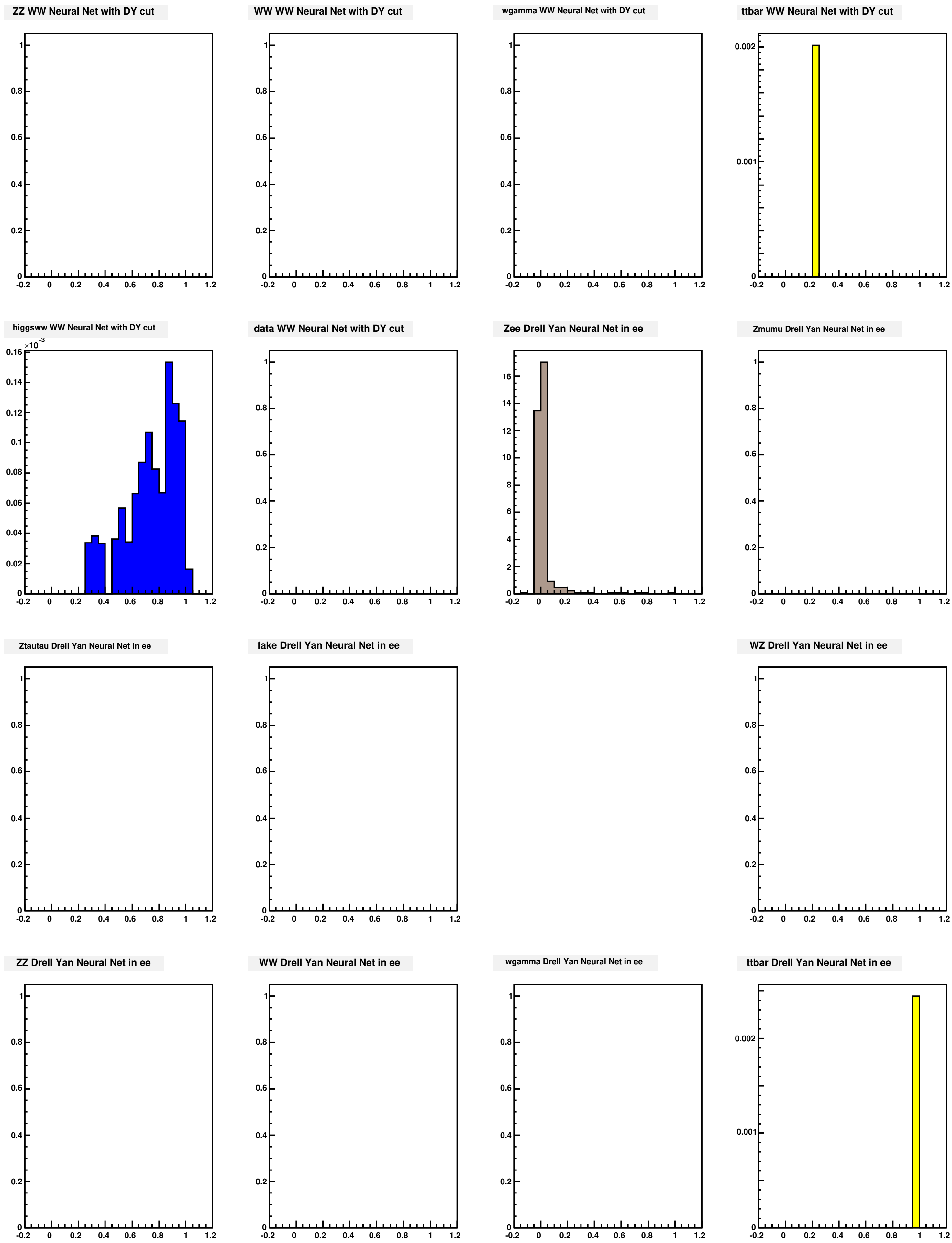

ZZ Drell Yan Neural Net
WW Drell Yan Neural Net
wgamma Drell Yan Neural Net
ttbar Drell Yan Neural Net
higgsww Drell Yan Neural Net
data Drell Yan Neural Net
Zee Drell Yan Neural Net
Zmumu Drell Yan Neural Net
Ztautau Drell Yan Neural Net
fake Drell Yan Neural Net
WZ Drell Yan Neural Net
ZZ Drell Yan Neural Net
WW Drell Yan Neural Net
wgamma Drell Yan Neural Net
ttbar Drell Yan Neural Net

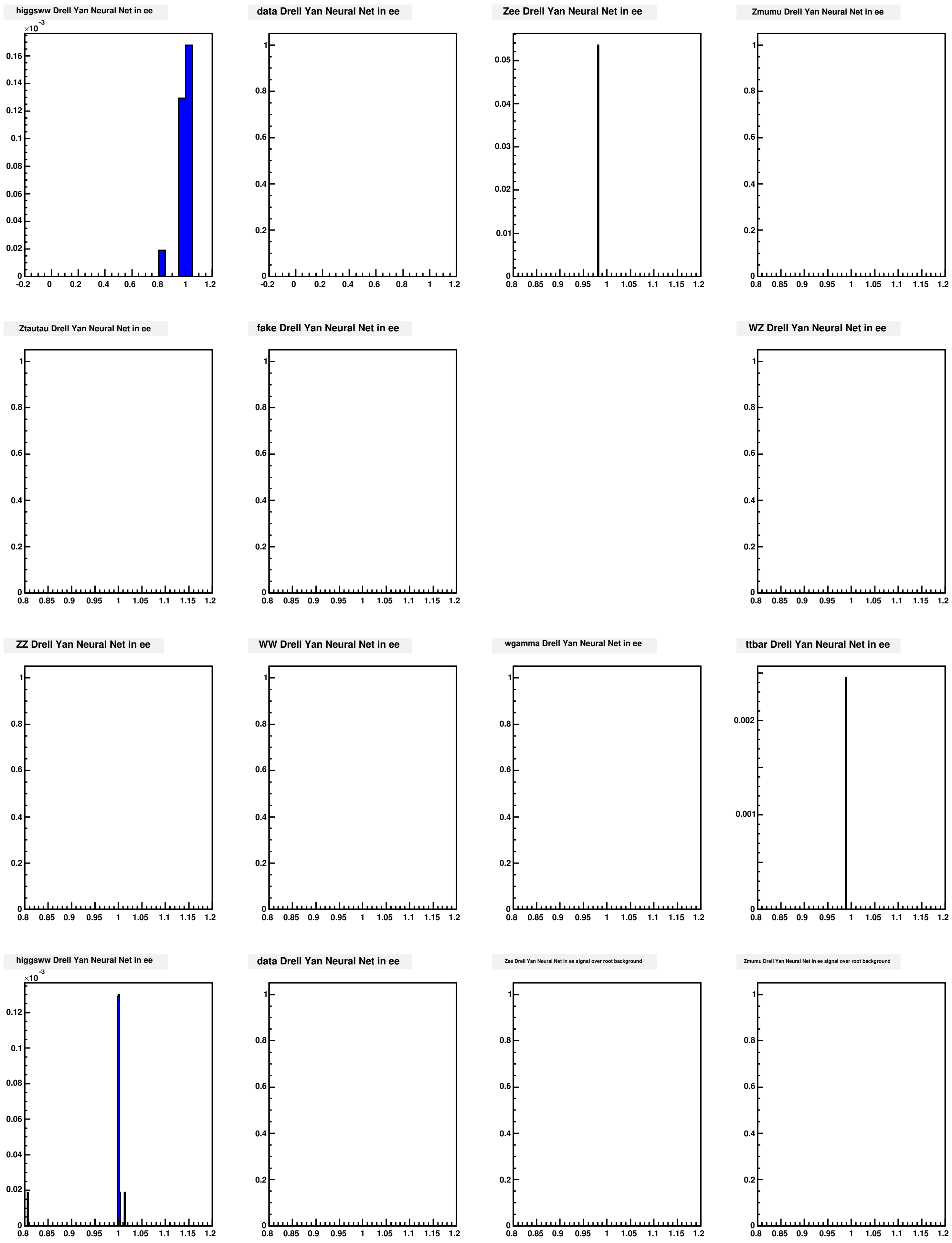


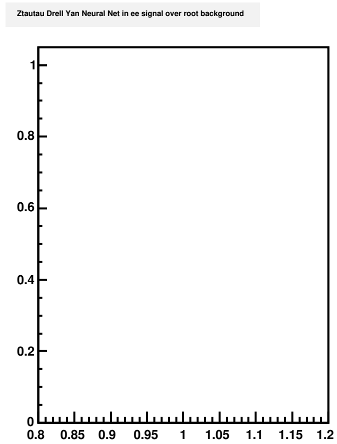
higgsww Drell Yan Neural Net
data Drell Yan Neural Net
Zee Drell Yan Neural Net with cut > 0.95
Zmumu Drell Yan Neural Net with cut > 0.95
Ztautau Drell Yan Neural Net with cut > 0.95
fake Drell Yan Neural Net with cut > 0.95
WZ Drell Yan Neural Net with cut > 0.95
ZZ Drell Yan Neural Net with cut > 0.95
WW Drell Yan Neural Net with cut > 0.95
wgamma Drell Yan Neural Net with cut > 0.95
ttbar Drell Yan Neural Net with cut > 0.95
higgsww Drell Yan Neural Net with cut > 0.95
data Drell Yan Neural Net with cut > 0.95
Zee WW Neural Net
Zmumu WW Neural Net



Ztautau WW Neural Net
fake WW Neural Net
WZ WW Neural Net
ZZ WW Neural Net
WW WW Neural Net
wgamma WW Neural Net
ttbar WW Neural Net
higgsww WW Neural Net
data WW Neural Net
Zee WW Neural Net with DY cut
Zmumu WW Neural Net with DY cut
Ztautau WW Neural Net with DY cut
fake WW Neural Net with DY cut
WZ WW Neural Net with DY cut


ZZ WW Neural Net with DY cut
WW WW Neural Net with DY cut
wgamma WW Neural Net with DY cut
ttbar WW Neural Net with DY cut
higgsww WW Neural Net with DY cut
data WW Neural Net with DY cut
Zee Drell Yan Neural Net in ee
Zmumu Drell Yan Neural Net in ee
Ztautau Drell Yan Neural Net in ee
fake Drell Yan Neural Net in ee
WZ Drell Yan Neural Net in ee
ZZ Drell Yan Neural Net in ee
WW Drell Yan Neural Net in ee
wgamma Drell Yan Neural Net in ee
ttbar Drell Yan Neural Net in ee


higgsww Drell Yan Neural Net in ee
data Drell Yan Neural Net in ee
Zee Drell Yan Neural Net in ee
Zmumu Drell Yan Neural Net in ee
Ztautau Drell Yan Neural Net in ee
fake Drell Yan Neural Net in ee
WZ Drell Yan Neural Net in ee
ZZ Drell Yan Neural Net in ee
WW Drell Yan Neural Net in ee
wgamma Drell Yan Neural Net in ee
ttbar Drell Yan Neural Net in ee
higgsww Drell Yan Neural Net in ee
data Drell Yan Neural Net in ee
Zee Drell Yan Neural Net in ee signal over root background
Zmumu Drell Yan Neural Net in ee signal over root background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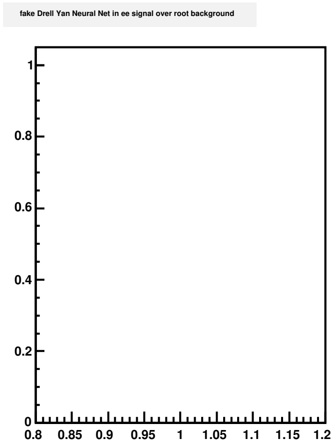
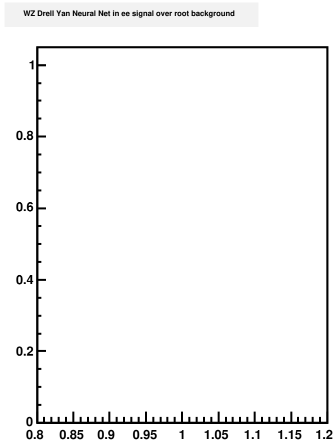
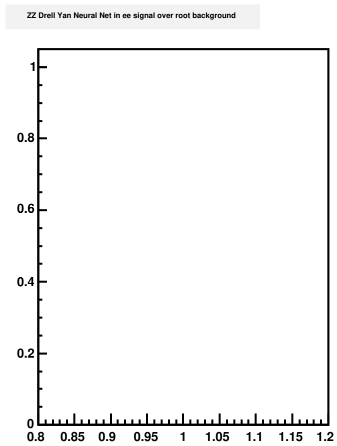
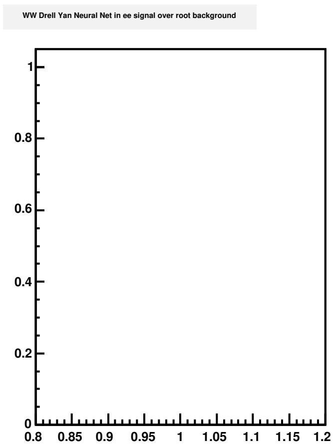
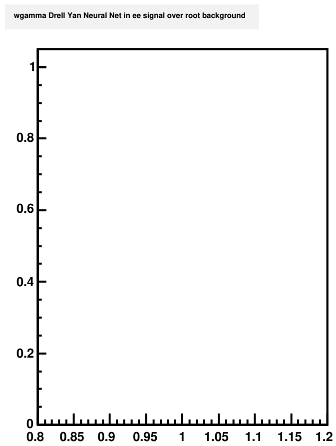

fake Drell Yan Neural Net in ee signal over root background


WZ Drell Yan Neural Net in ee signal over root background


ZZ Drell Yan Neural Net in ee signal over root background


WW Drell Yan Neural Net in ee signal over root background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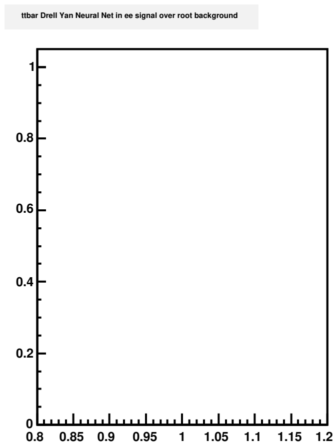
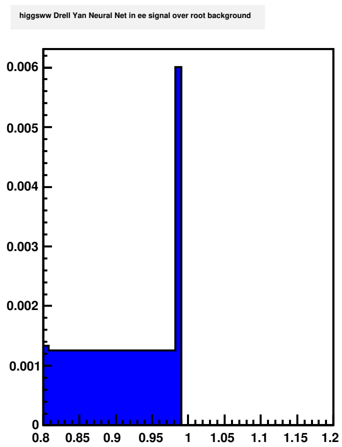
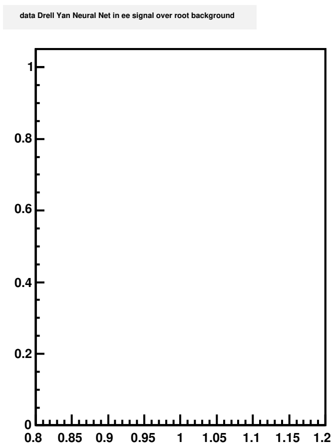
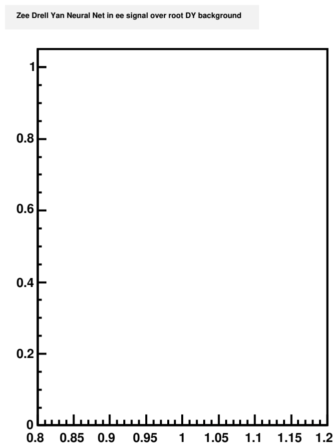
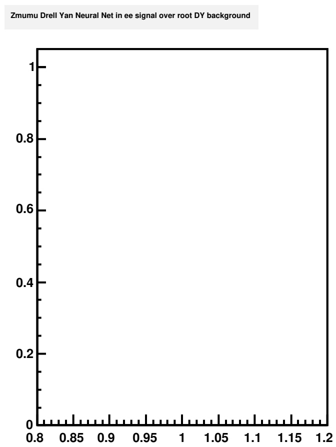
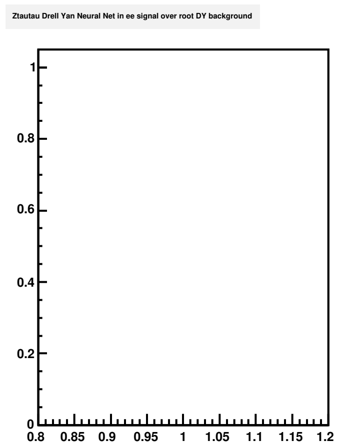

ttbar Drell Yan Neural Net in ee signal over root background

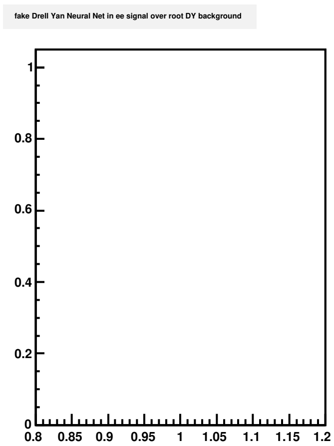

higgsww Drell Yan Neural Net in ee signal over root background

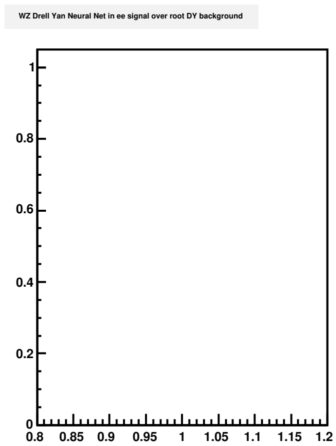

data Drell Yan Neural Net in ee signal over root background

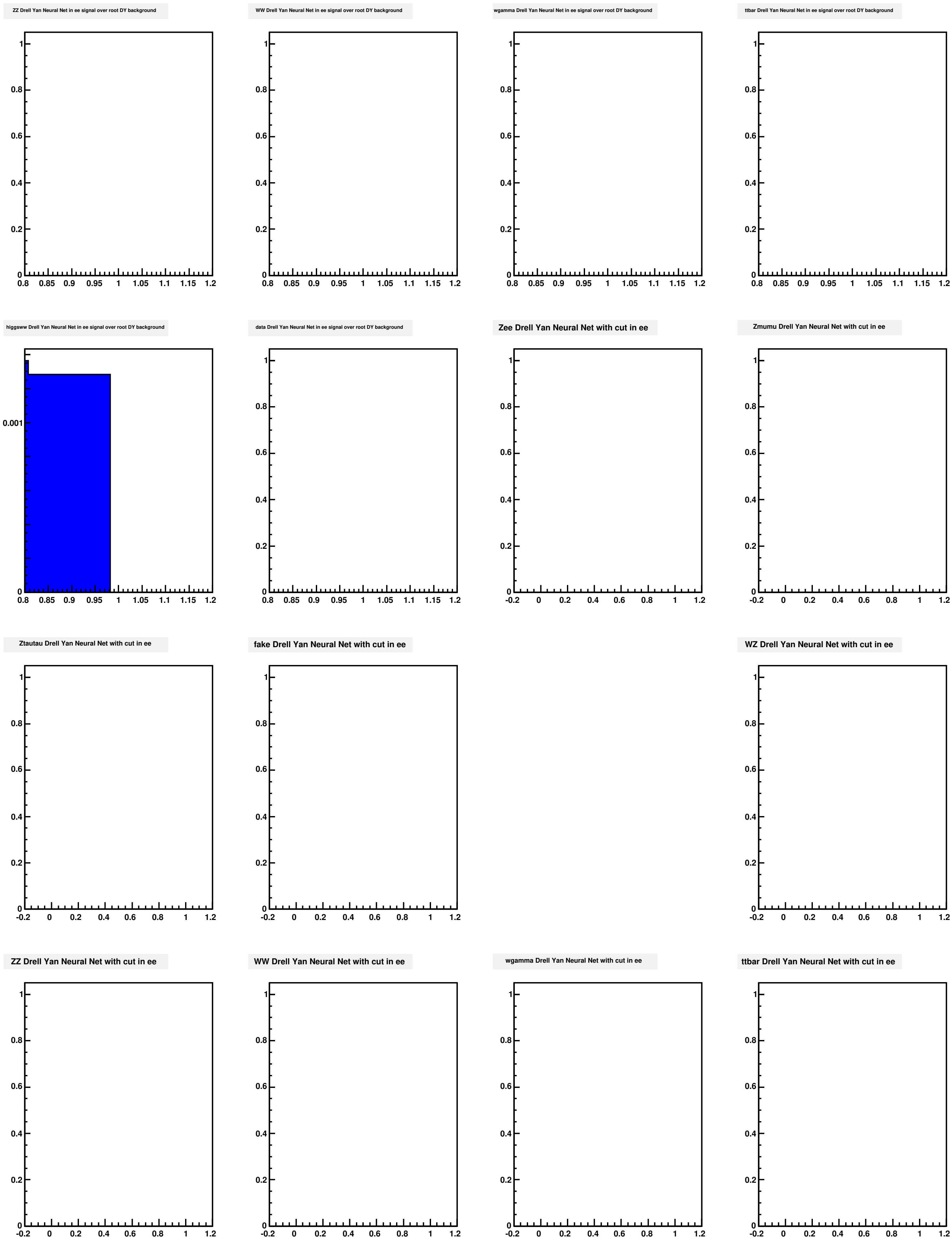

Zee Drell Yan Neural Net in ee signal over root DY background

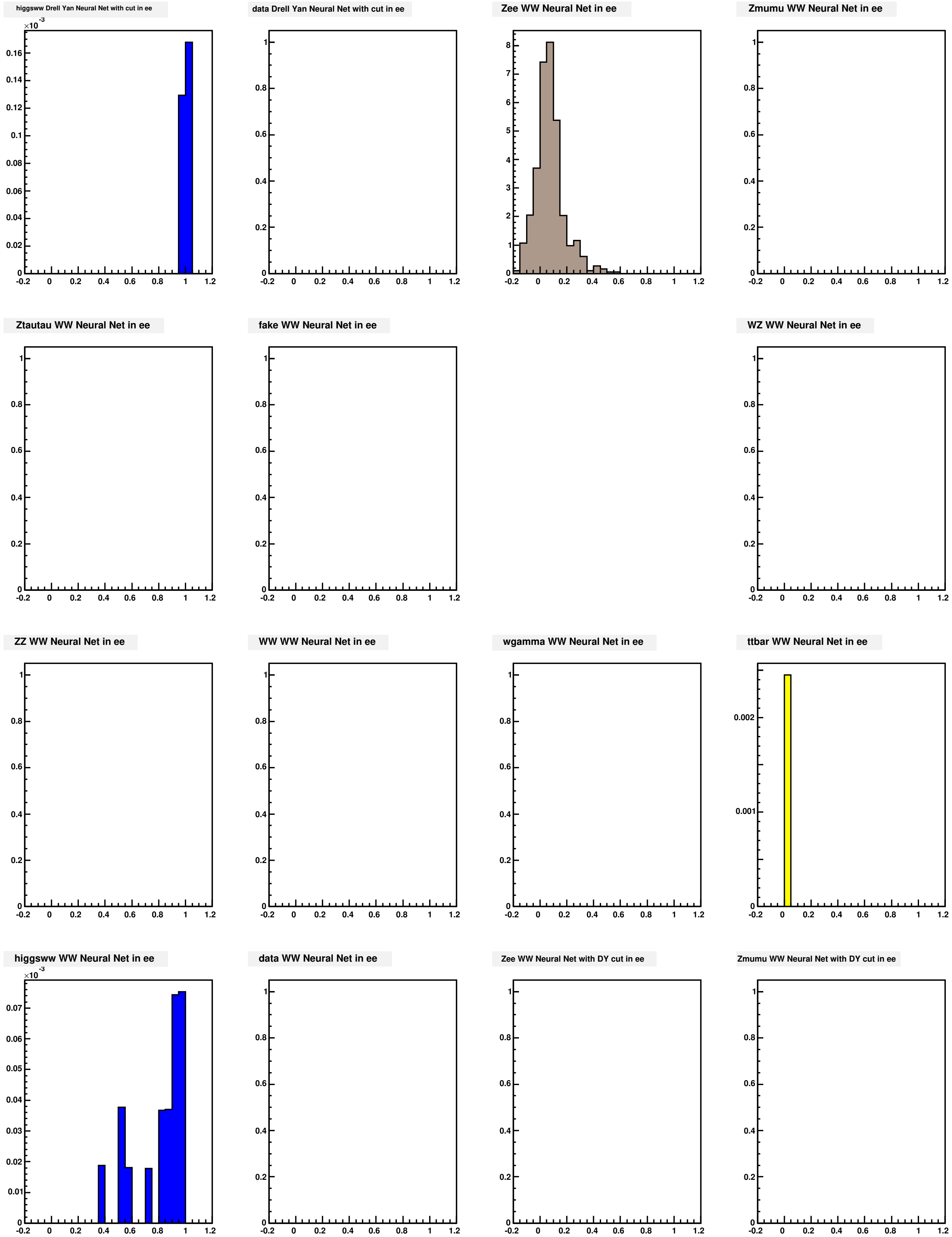

Zmumu Drell Yan Neural Net in ee signal over root DY background


Ztautau Drell Yan Neural Net in ee signal over root DY background

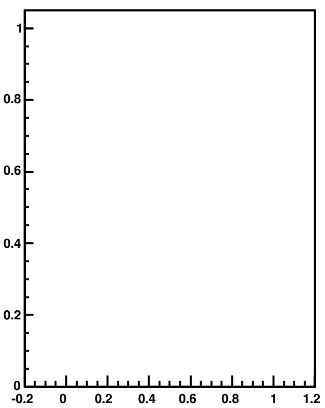

fake Drell Yan Neural Net in ee signal over root DY background


WZ Drell Yan Neural Net in ee signal over root DY background

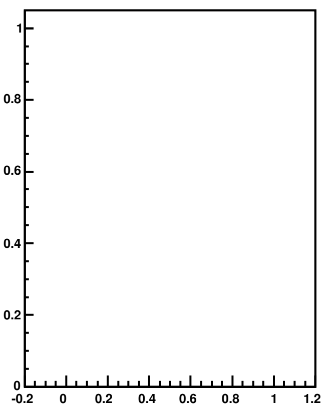

ZZ Drell Yan Neural Net in ee signal over root DY background
WW Drell Yan Neural Net in ee signal over root DY background
wgamma Drell Yan Neural Net in ee signal over root DY background
ttbar Drell Yan Neural Net in ee signal over root DY background
higgsww Drell Yan Neural Net in ee signal over root DY background
data Drell Yan Neural Net in ee signal over root DY background
Zee Drell Yan Neural Net with cut in ee
Zmumu Drell Yan Neural Net with cut in ee
Ztautau Drell Yan Neural Net with cut in ee
fake Drell Yan Neural Net with cut in ee
WZ Drell Yan Neural Net with cut in ee
ZZ Drell Yan Neural Net with cut in ee
WW Drell Yan Neural Net with cut in ee
wgamma Drell Yan Neural Net with cut in ee
ttbar Drell Yan Neural Net with cut in ee


higgsww Drell Yan Neural Net with cut in ee
data Drell Yan Neural Net with cut in ee
Zee WW Neural Net in ee
Zmumu WW Neural Net in ee
Ztautau WW Neural Net in ee
fake WW Neural Net in ee
WZ WW Neural Net in ee
ZZ WW Neural Net in ee
WW WW Neural Net in ee
wgamma WW Neural Net in ee
ttbar WW Neural Net in ee
higgsww WW Neural Net in ee
data WW Neural Net in ee
Zee WW Neural Net with DY cut in ee
Zmumu WW Neural Net with DY cut in ee

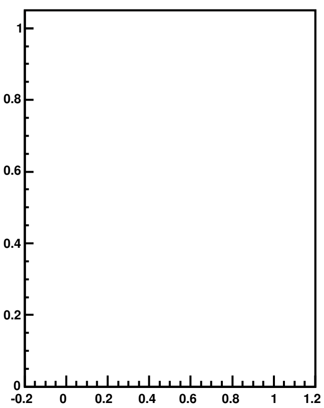
Ztautau WW Neural Net with DY cut in ee



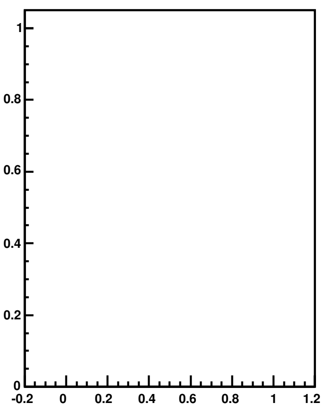
fake WW Neural Net with DY cut in ee



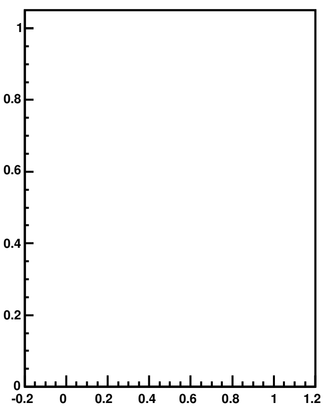
WZ WW Neural Net with DY cut in ee



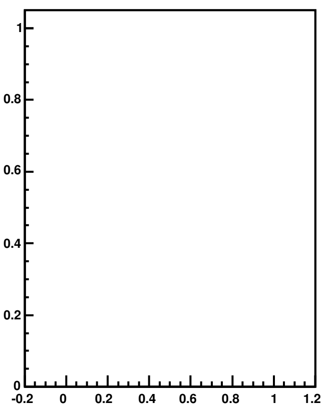
ZZ WW Neural Net with DY cut in ee



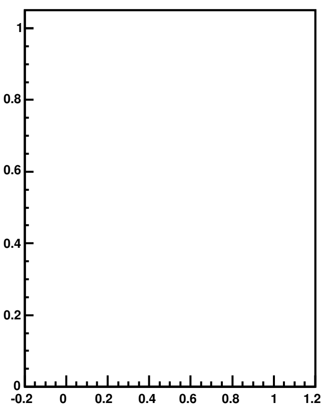
WW WW Neural Net with DY cut in ee



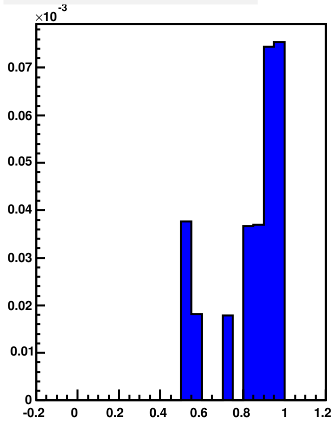
wgamma WW Neural Net with DY cut in ee



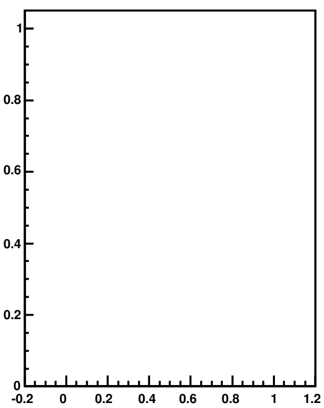
ttbar WW Neural Net with DY cut in ee



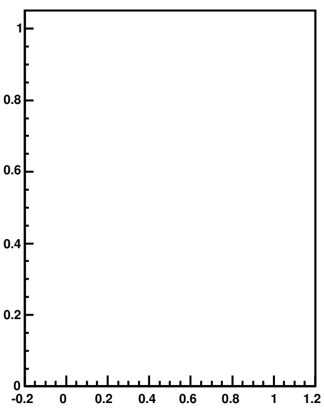
higgsww WW Neural Net with DY cut in ee



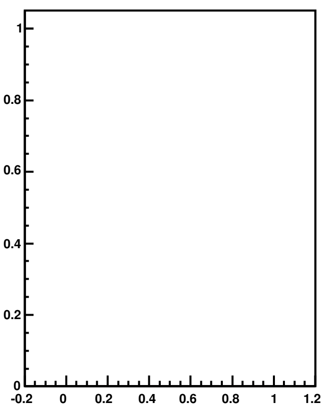
data WW Neural Net with DY cut in ee



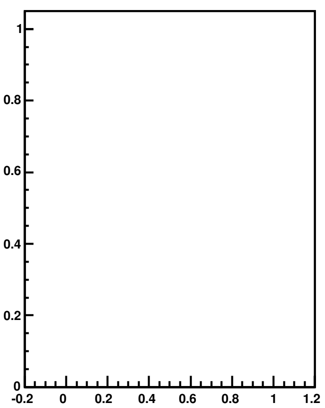
Zee WW+DYcut JESup in ee



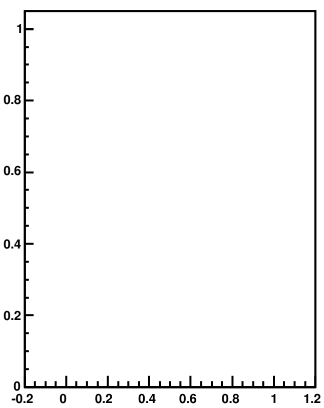
Zmumu WW+DYcut JESup in ee



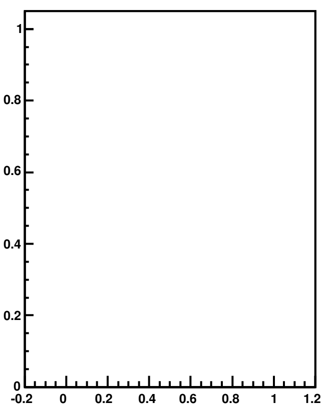
Ztautau WW+DYcut JESup in ee



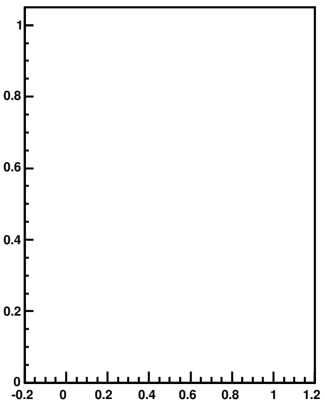
fake WW+DYcut JESup in ee



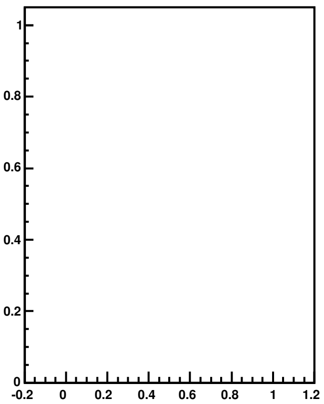
WZ WW+DYcut JESup in ee



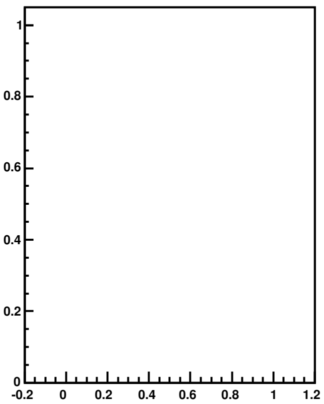
ZZ WW+DYcut JESup in ee



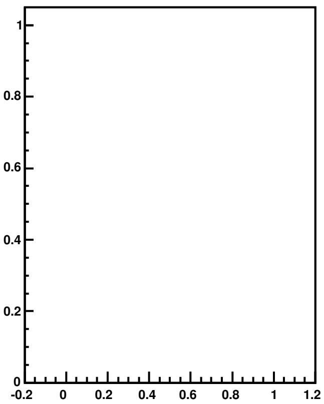

WW WW+DYcut JESup in ee



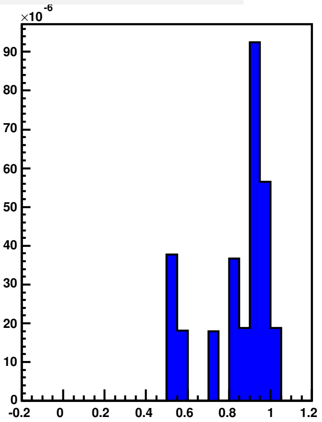

wgamma WW+DYcut JESup in ee



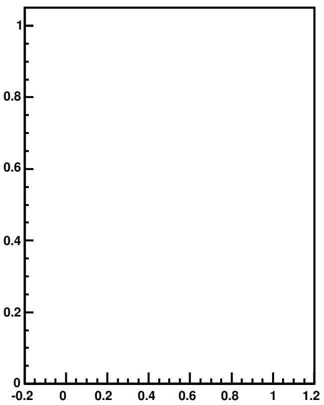

ttbar WW+DYcut JESup in ee



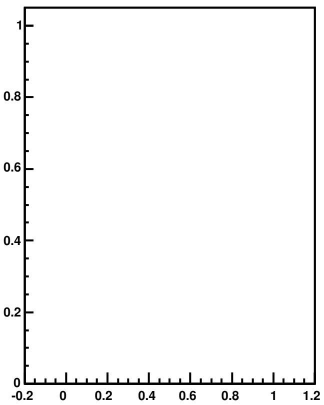

higgsww WW+DYcut JESup in ee



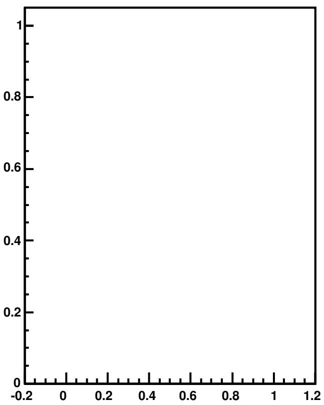

data WW+DYcut JESup in ee



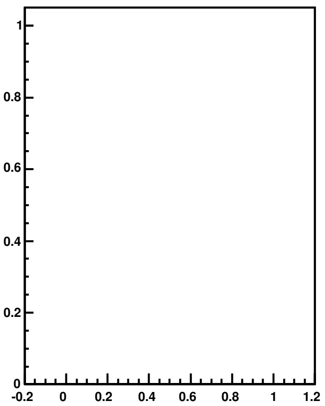

Zee WW+DYcut JESdn in ee



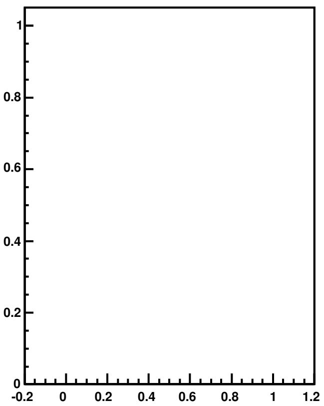

Zmumu WW+DYcut JESdn in ee



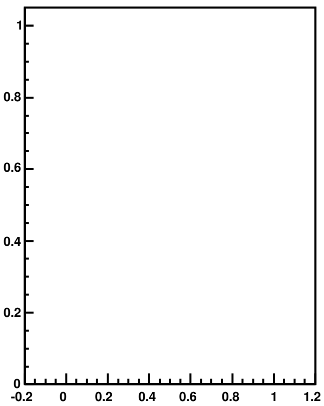

Ztautau WW+DYcut JESdn in ee



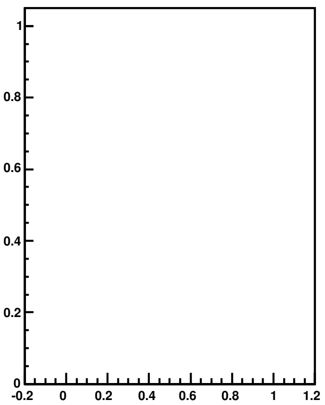

fake WW+DYcut JESdn in ee



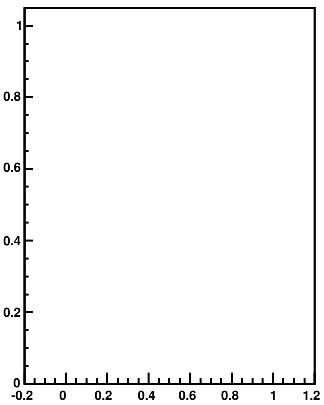

WZ WW+DYcut JESdn in ee



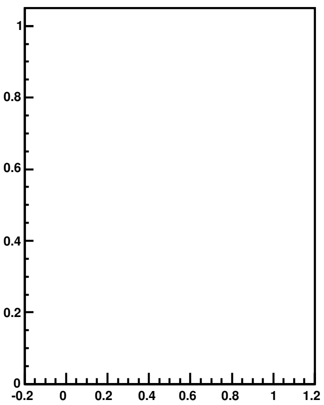

ZZ WW+DYcut JESdn in ee



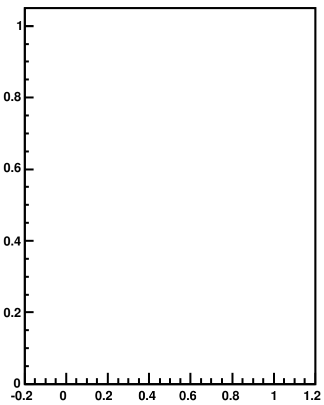

WW WW+DYcut JESdn in ee

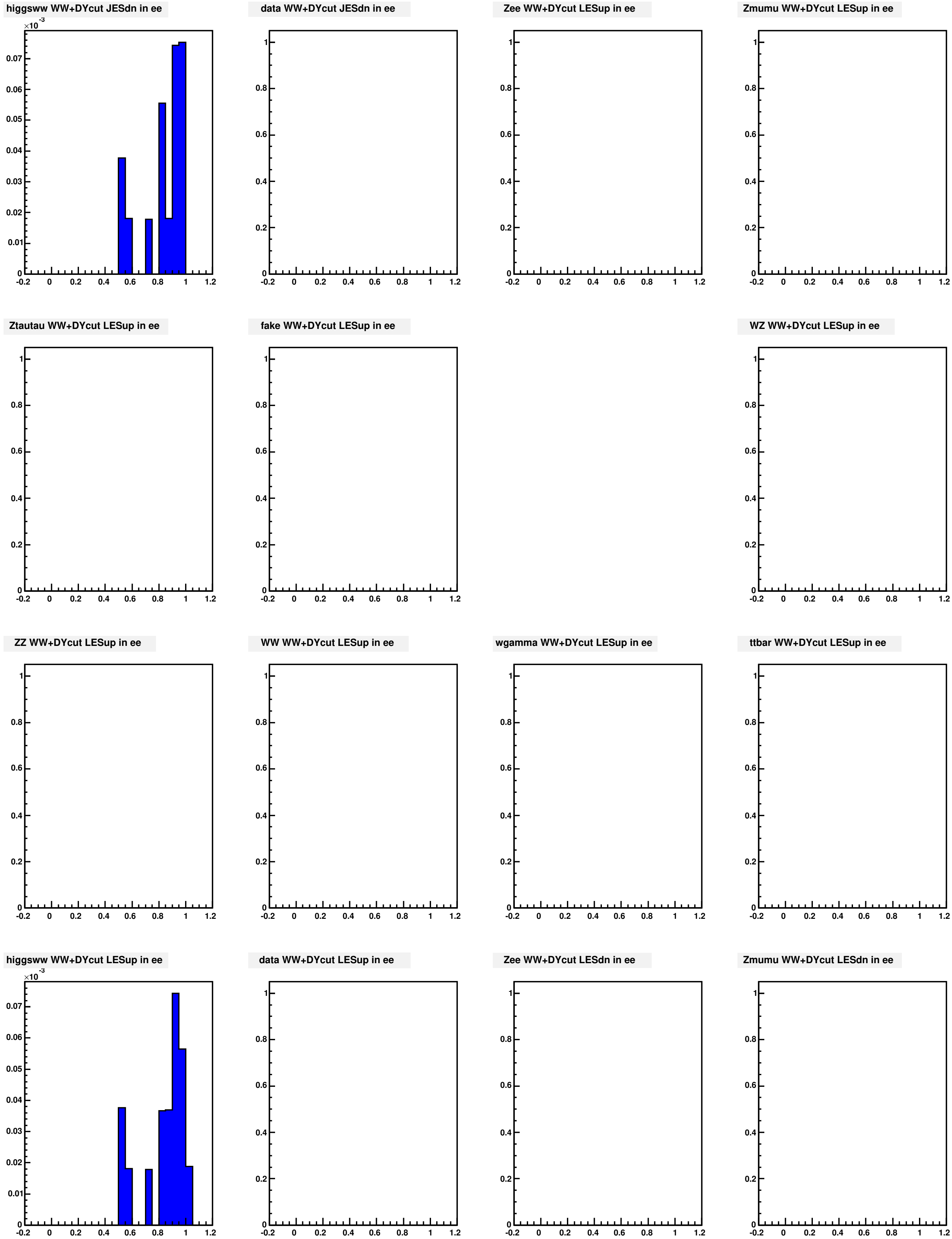



wgamma WW+DYcut JESdn in ee




ttbar WW+DYcut JESdn in ee




higgsww WW+DYcut JESdn in ee
data WW+DYcut JESdn in ee
Zee WW+DYcut LESup in ee
Zmumu WW+DYcut LESup in ee
Ztautau WW+DYcut LESup in ee
fake WW+DYcut LESup in ee
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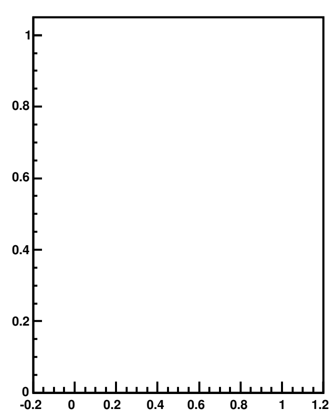
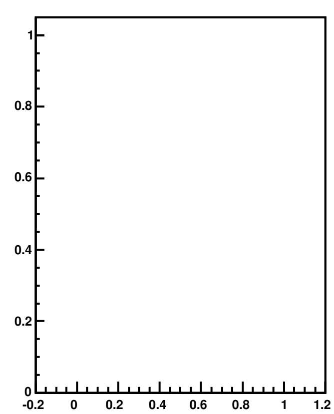
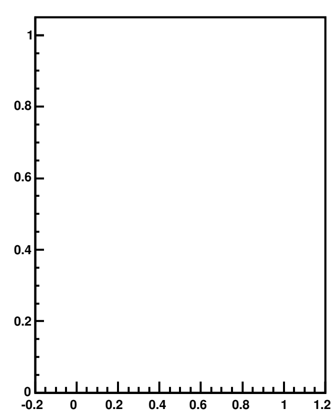


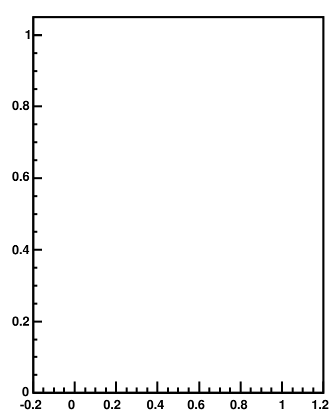

fake WW+DYcut LESdn in ee



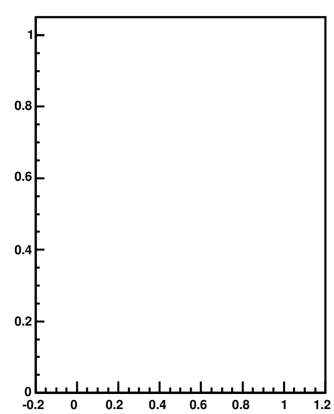

WZ WW+DYcut LESdn in ee



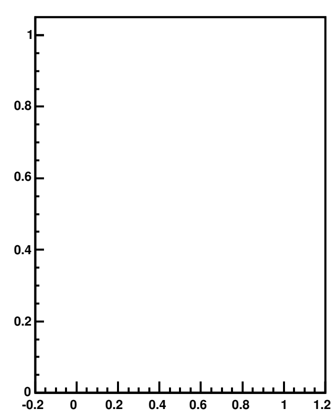

ZZ WW+DYcut LESdn in ee



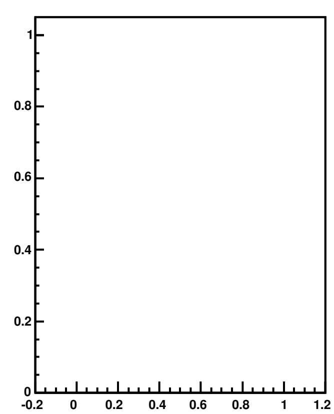

WW WW+DYcut LESdn in ee



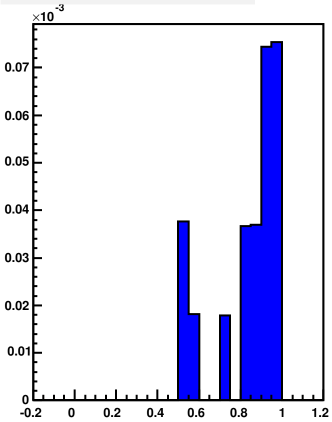

wgamma WW+DYcut LESdn in ee



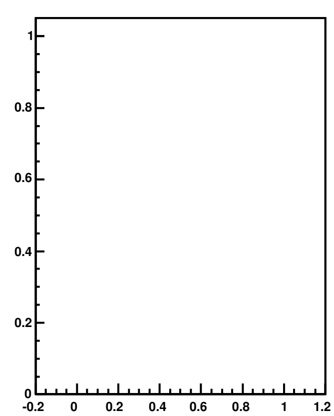

ttbar WW+DYcut LESdn in ee



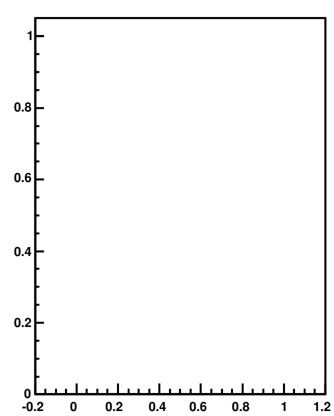

higgsww WW+DYcut LESdn in ee



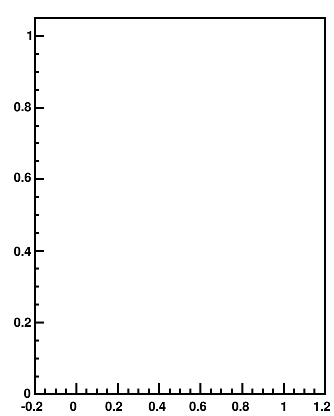

data WW+DYcut LESdn in ee



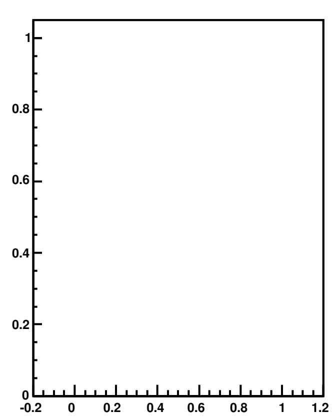

Zee WW+DYcut Fakeup in ee



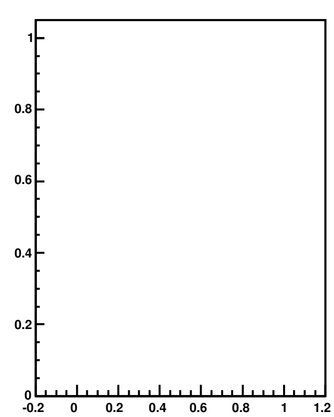

Zmumu WW+DYcut Fakeup in ee



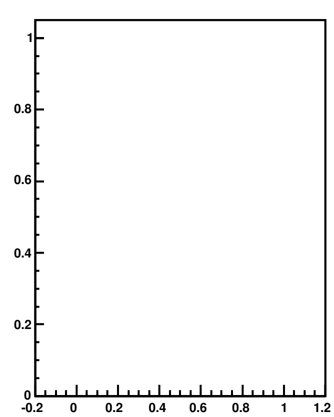

Ztautau WW+DYcut Fakeup in ee



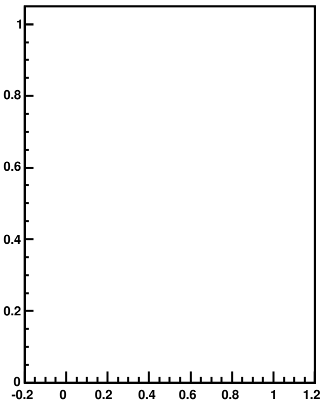

fake WW+DYcut Fakeup in ee



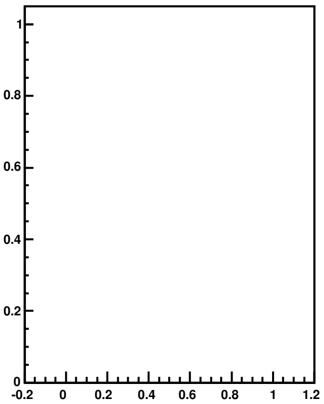

WZ WW+DYcut Fakeup in ee



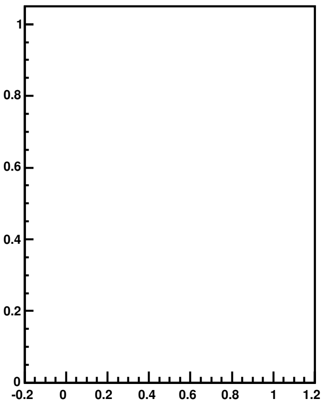
ZZ WW+DYcut Fakeup in ee



WW WW+DYcut Fakeup in ee



wgamma WW+DYcut Fakeup in ee



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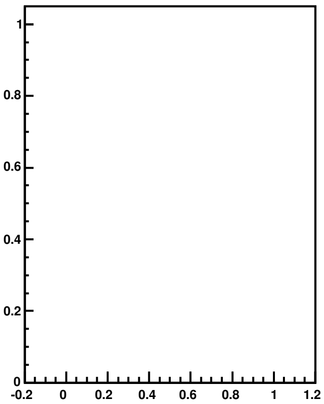
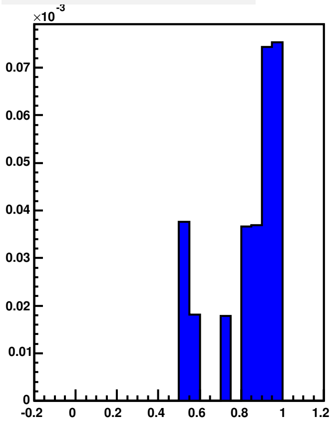


higgsww WW+DYcut Fakeup in ee



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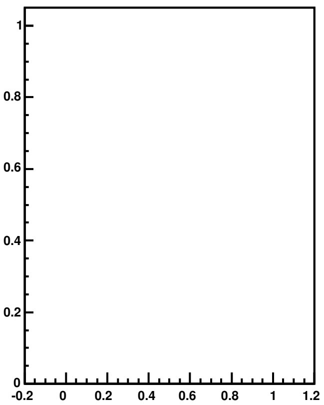

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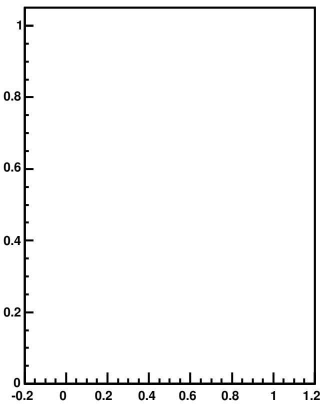

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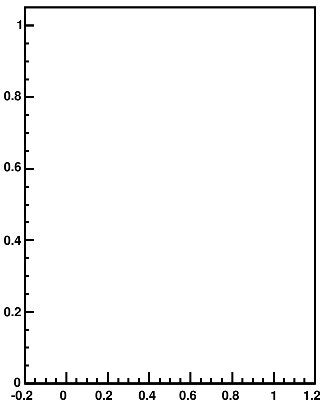

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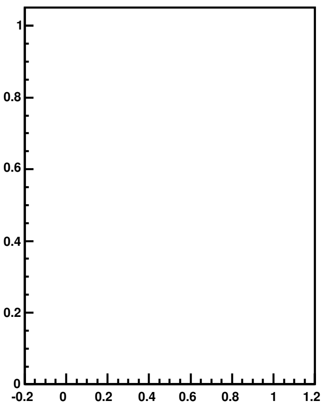

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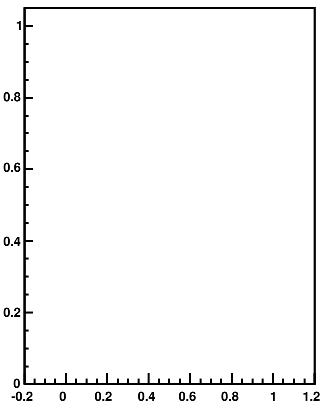

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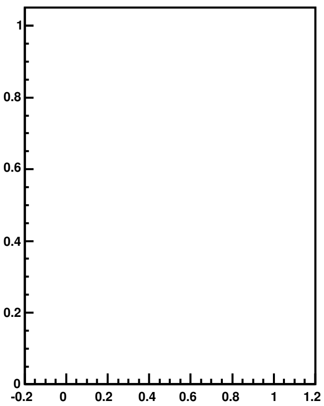
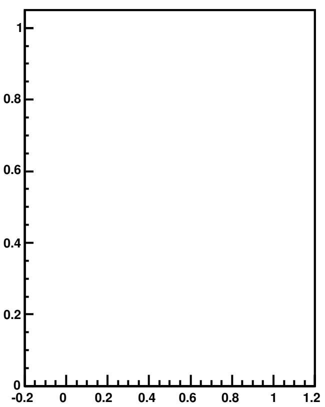


ZZ WW+DYcut Fakedn in ee



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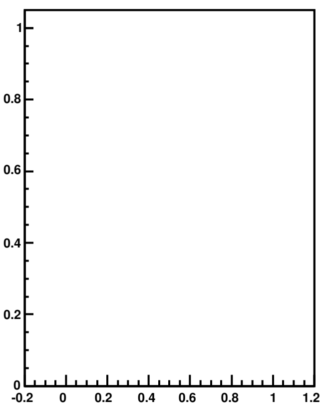

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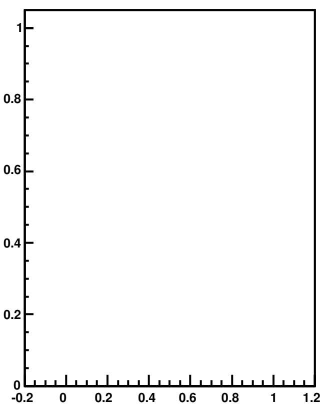

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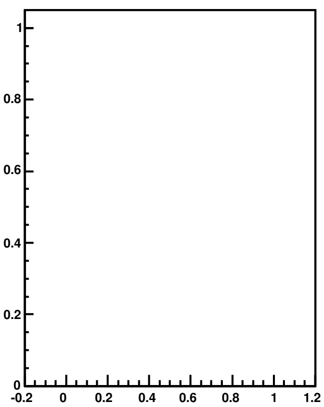

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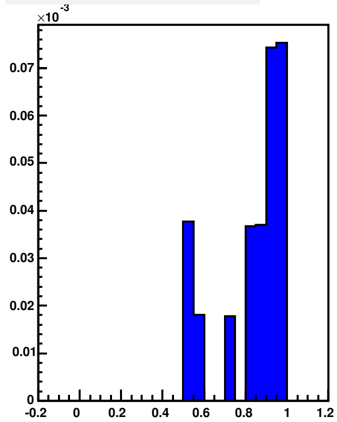

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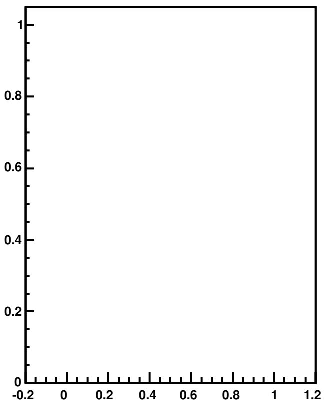

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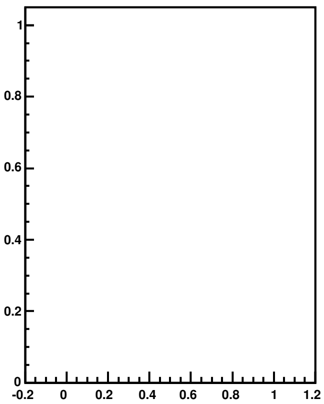

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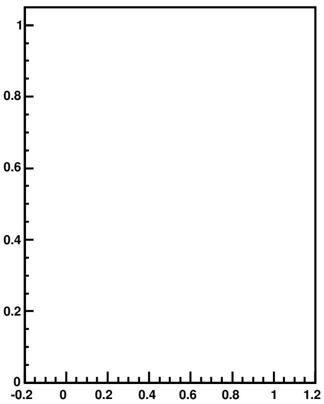

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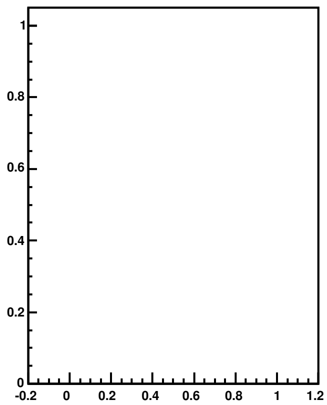

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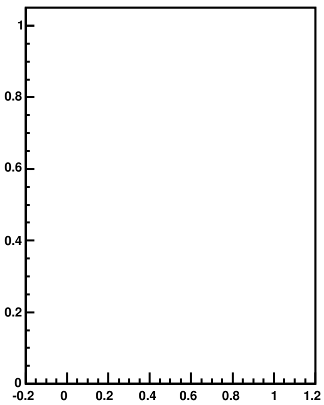

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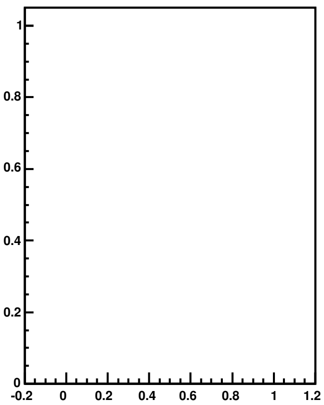

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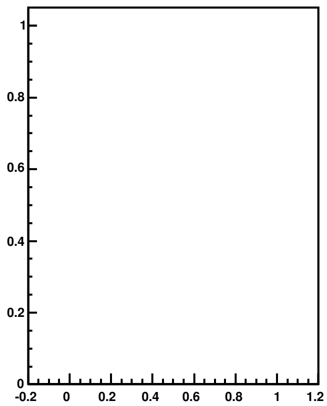
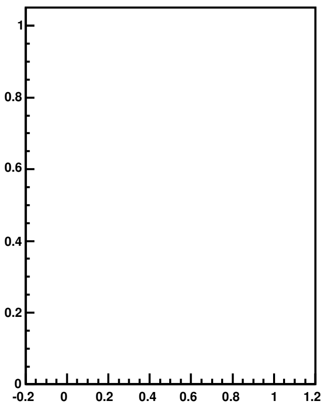


WW WW+DYcut ISRup in ee



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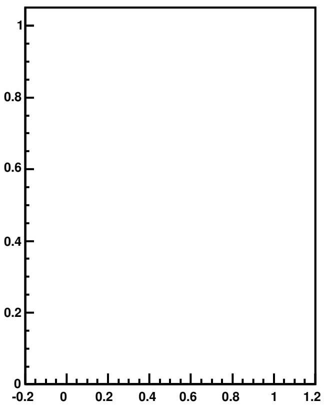

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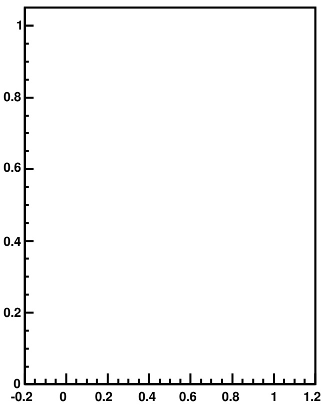

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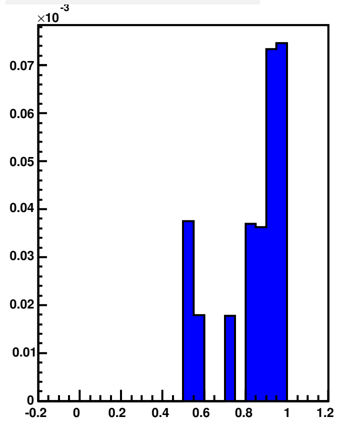

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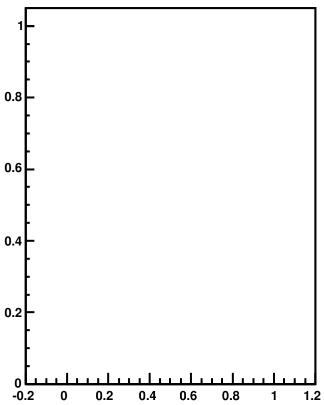

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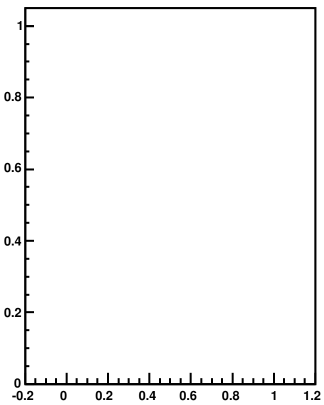

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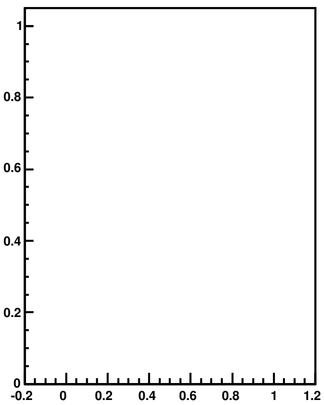

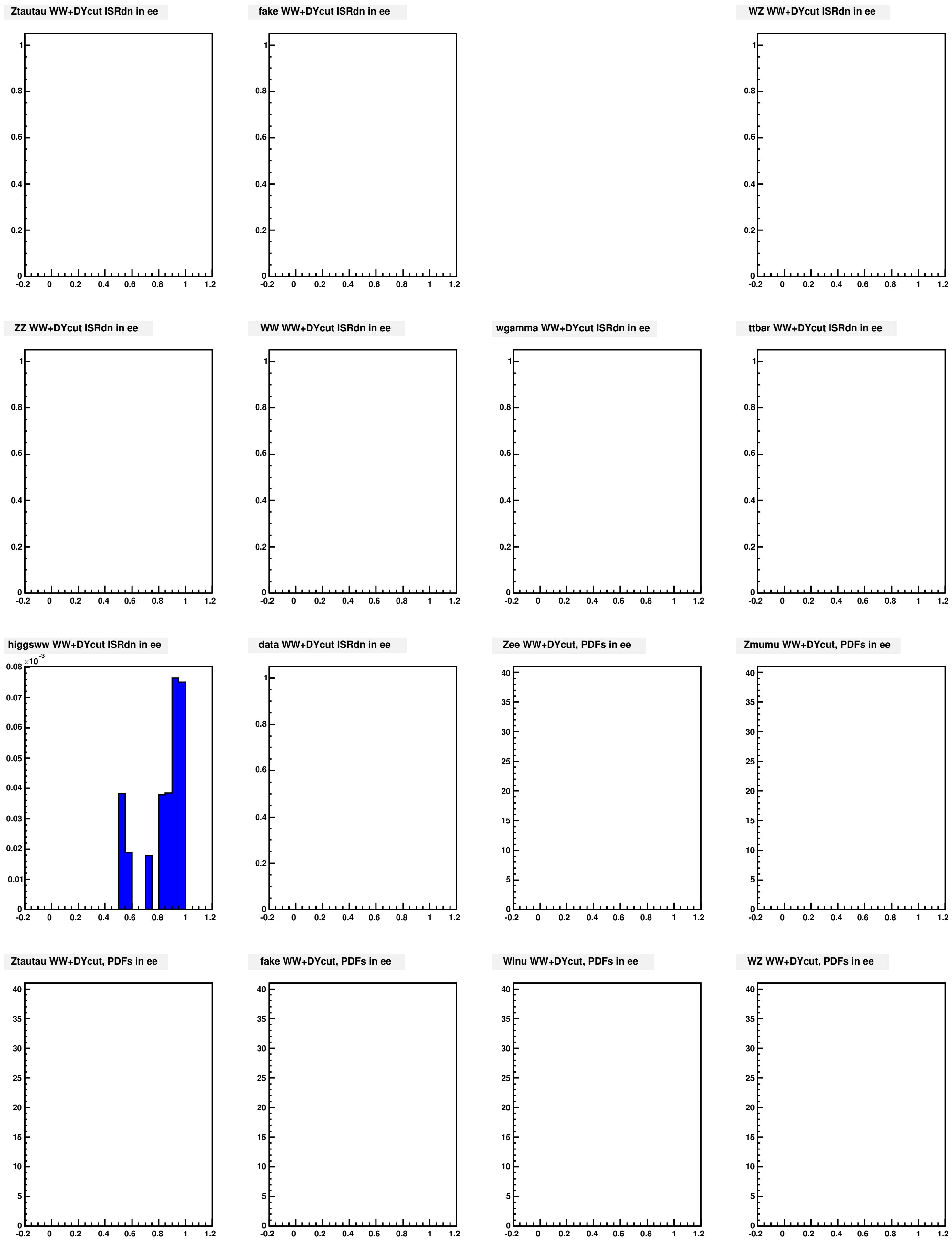

Ztautau WW+DYcut ISRdn in ee
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ZZ WW+DYcut ISRdn in ee
WW WW+DYcut ISRdn in ee
wgamma WW+DYcut ISRdn in ee
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Zee WW+DYcut, PDFs in ee
Zmumu WW+DYcut, PDFs in ee
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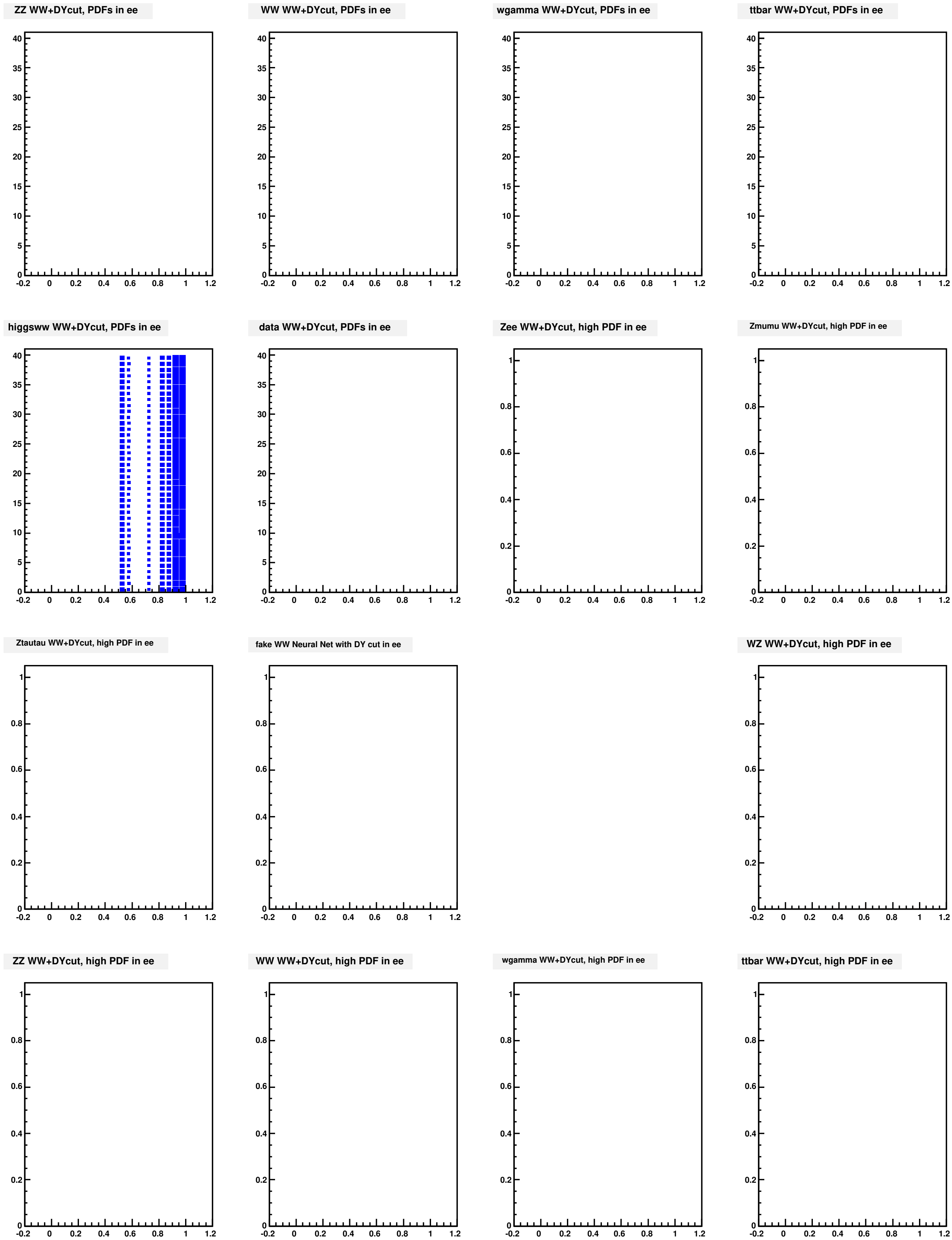
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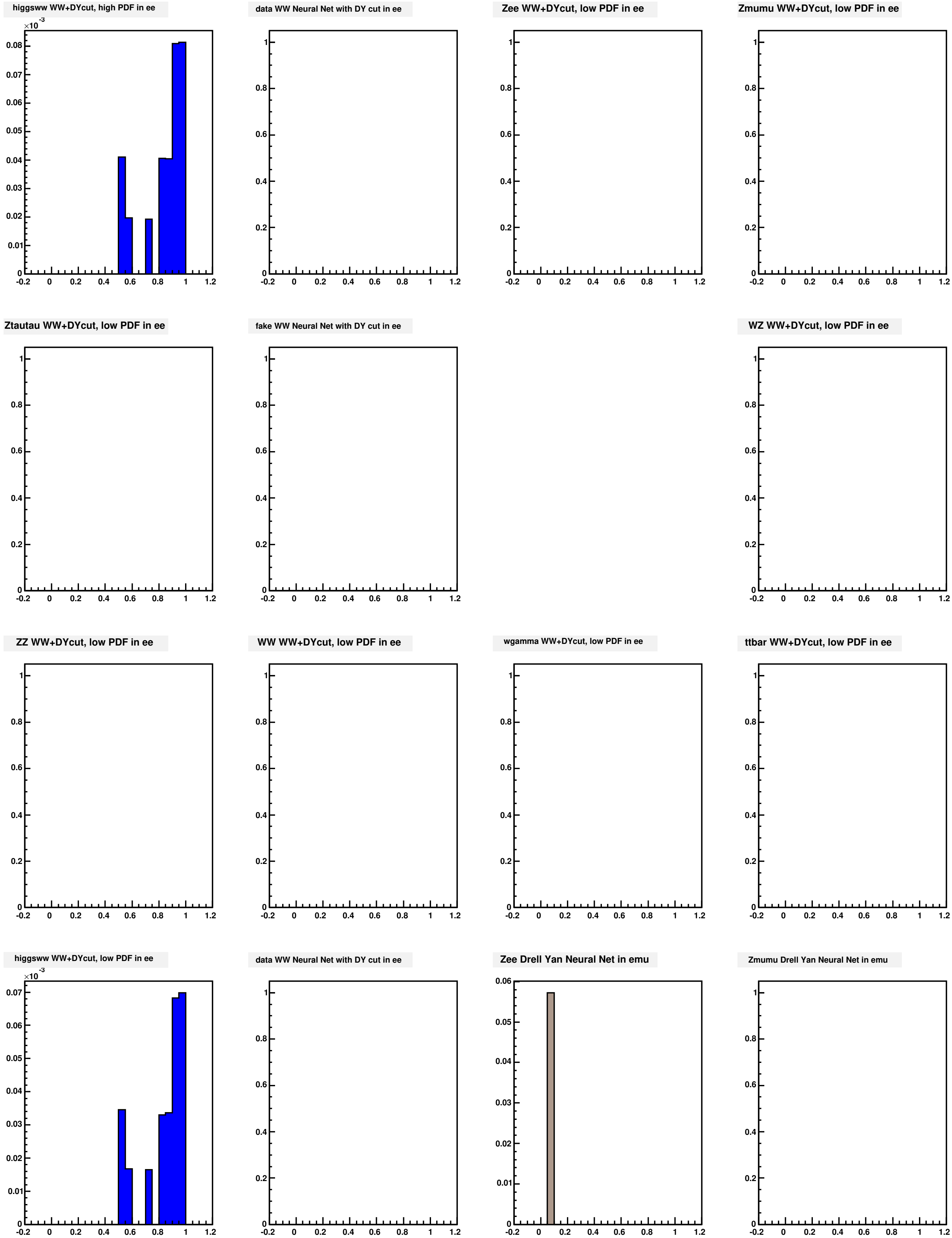
higgsww WW+DYcut, high PDF in ee
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WZ WW+DYcut, low PDF in ee
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WW WW+DYcut, low PDF in ee
wgamma WW+DYcut, low PDF in ee
ttbar WW+DYcut, low PDF in ee
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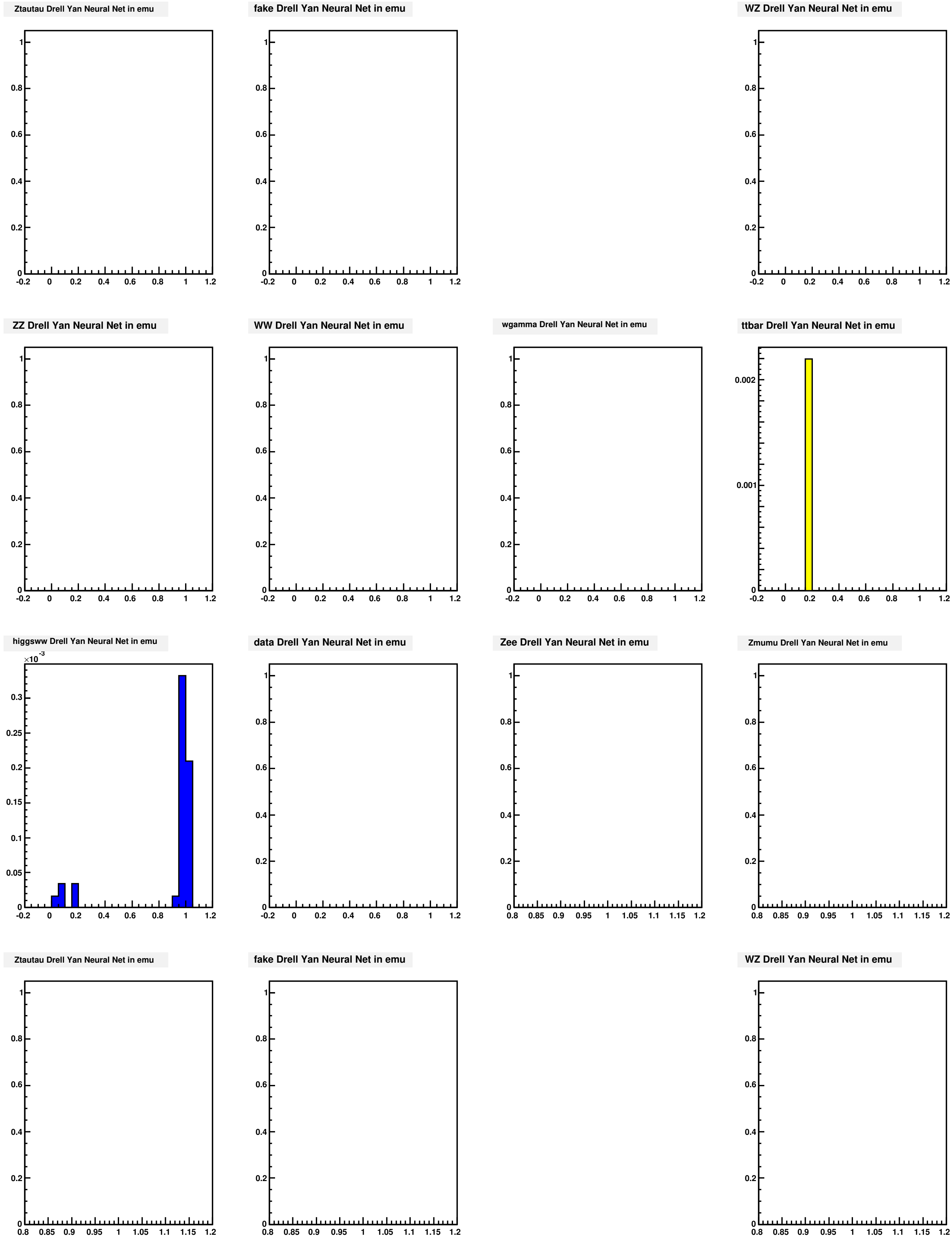
Zee Drell Yan Neural Net in emu
Zmumu Drell Yan Neural Net in emu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fake Drell Yan Neural Net in emu
WZ Drell Yan Neural Net in emu
ZZ Drell Yan Neural Net in emu
WW Drell Yan Neural Net in emu
wgamma Drell Yan Neural Net in emu
ttbar Drell Yan Neural Net in emu
higgsww Drell Yan Neural Net in emu
data Drell Yan Neural Net in emu
Zee Drell Yan Neural Net in emu
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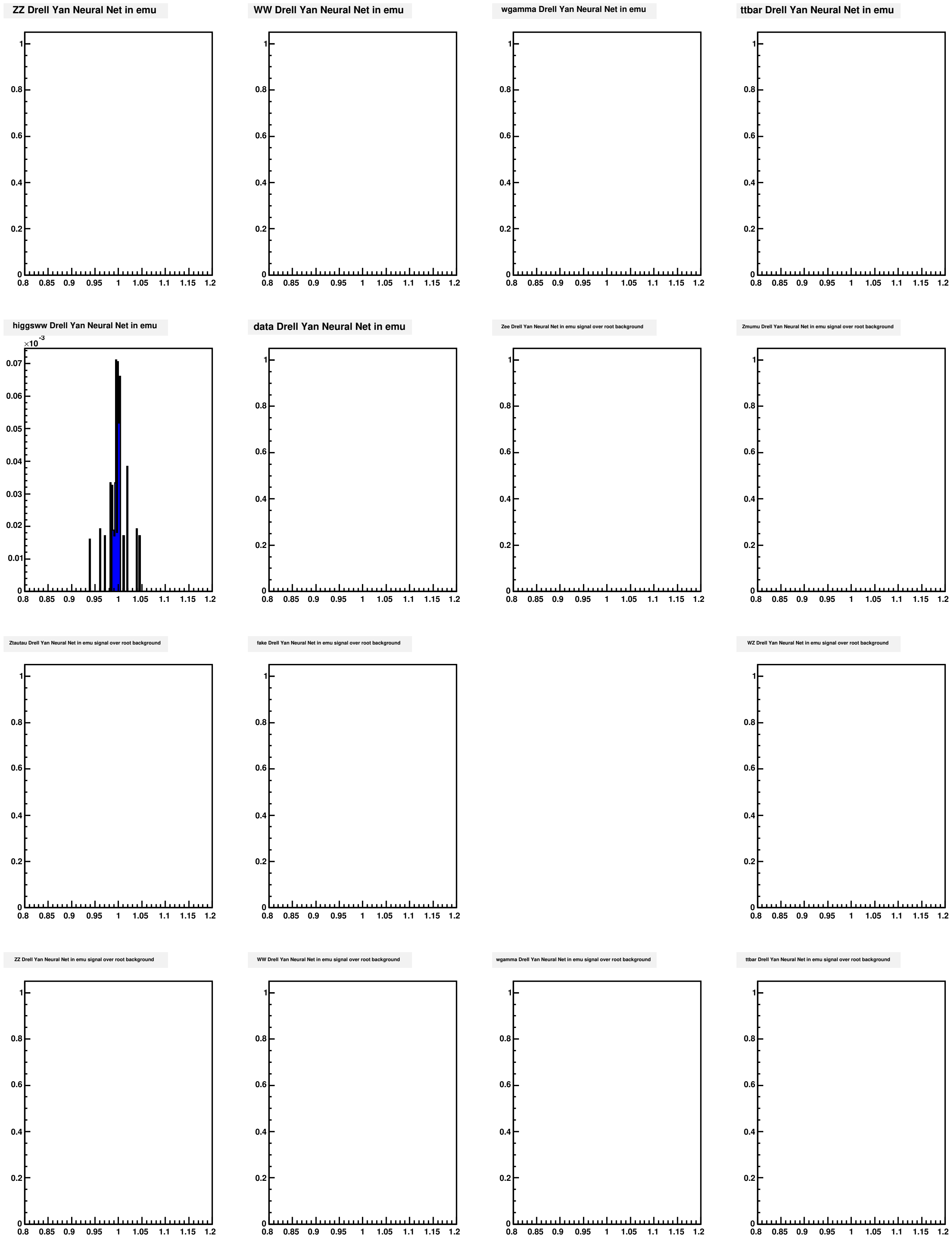

ZZ Drell Yan Neural Net in emu
WW Drell Yan Neural Net in emu
wgamma Drell Yan Neural Net in emu
ttbar Drell Yan Neural Net in emu
higgsww Drell Yan Neural Net in emu
data Drell Yan Neural Net in emu
Zee Drell Yan Neural Net in emu signal over root background
Zmumu Drell Yan Neural Net in emu signal over root background
Ztautau Drell Yan Neural Net in emu signal over root background
fake Drell Yan Neural Net in emu signal over root background
WZ Drell Yan Neural Net in emu signal over root background
ZZ Drell Yan Neural Net in emu signal over root background
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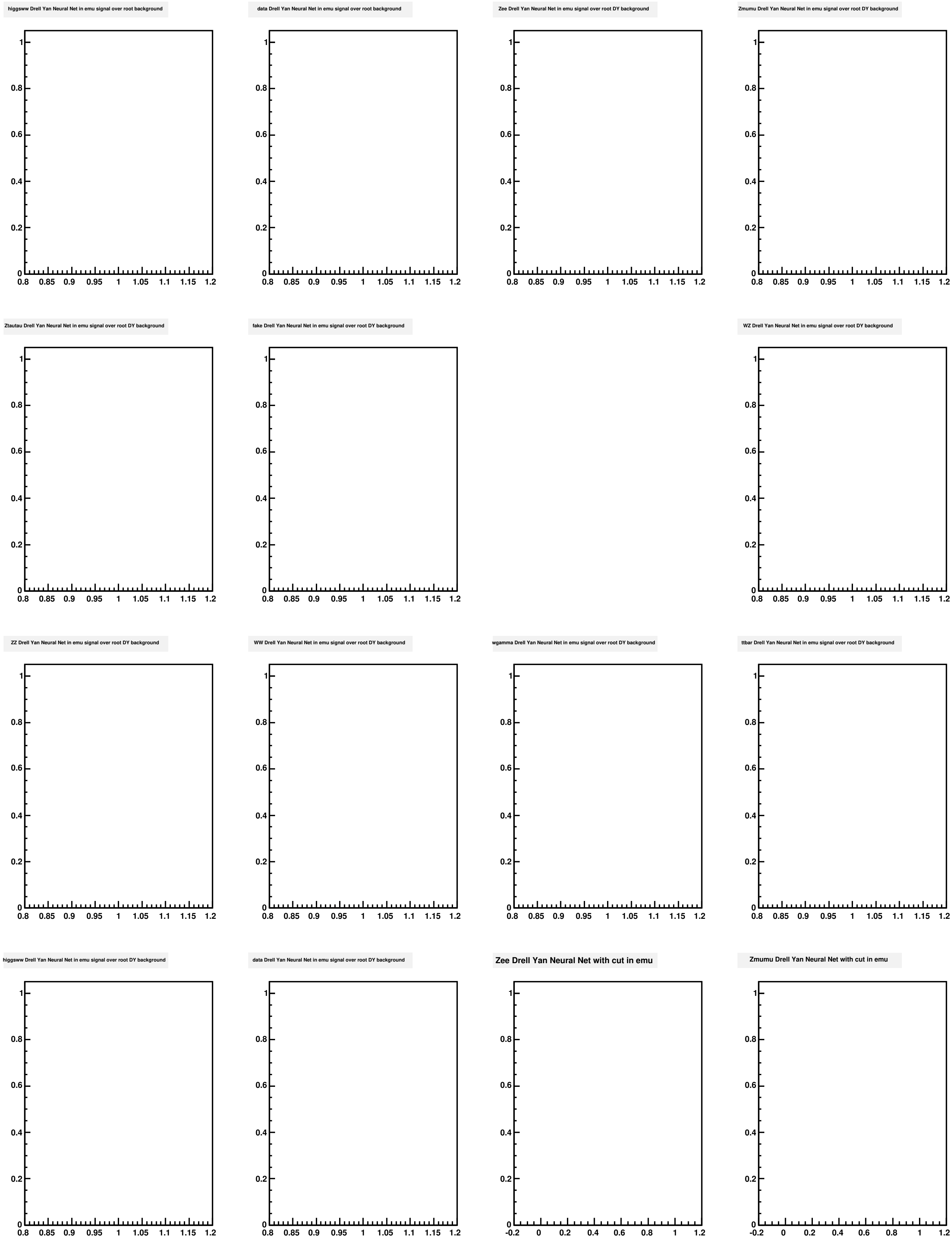
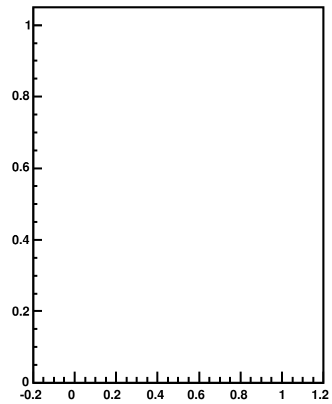
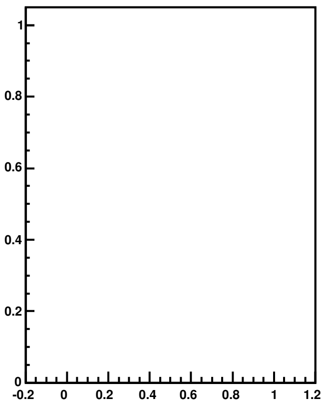

higgsww Drell Yan Neural Net in emu signal over root background
data Drell Yan Neural Net in emu signal over root background
Zee Drell Yan Neural Net in emu signal over root DY background
Zmumu Drell Yan Neural Net in emu signal over root DY background
Ztautau Drell Yan Neural Net in emu signal over root DY background
fake Drell Yan Neural Net in emu signal over root DY background
WZ Drell Yan Neural Net in emu signal over root DY background
ZZ Drell Yan Neural Net in emu signal over root DY background
WW Drell Yan Neural Net in emu signal over root DY background
wgamma Drell Yan Neural Net in emu signal over root DY background
ttbar Drell Yan Neural Net in emu signal over root DY background
higgsww Drell Yan Neural Net in emu signal over root DY background
data Drell Yan Neural Net in emu signal over root DY background
Zee Drell Yan Neural Net with cut in emu
Zmumu Drell Yan Neural Net with cut in emu

Ztautau Drell Yan Neural Net with cut in emu




fake Drell Yan Neural Net with cut in emu

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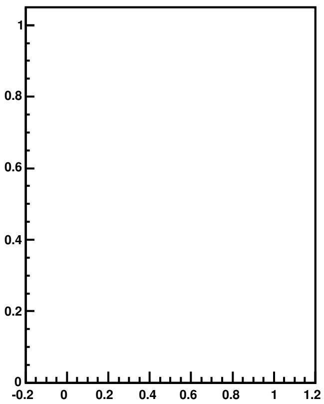
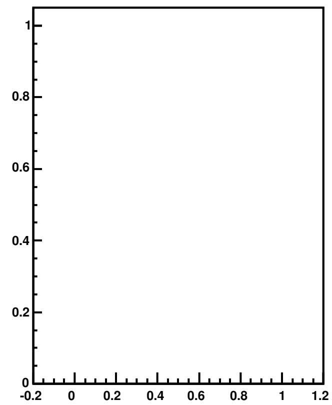
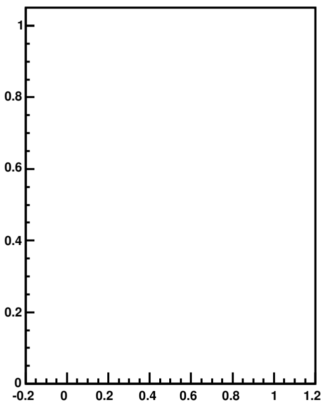


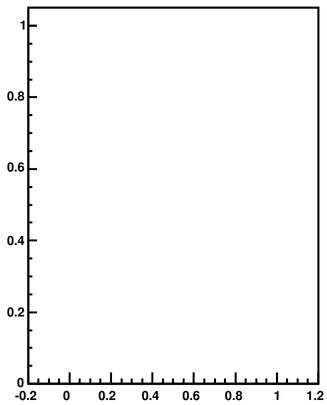

ZZ Drell Yan Neural Net with cut in emu



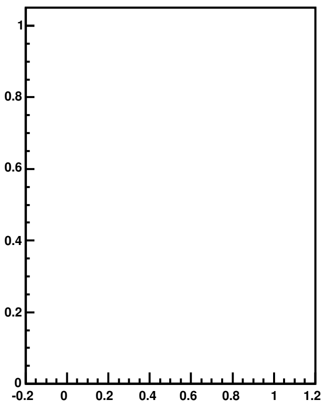

WW Drell Yan Neural Net with cut in emu



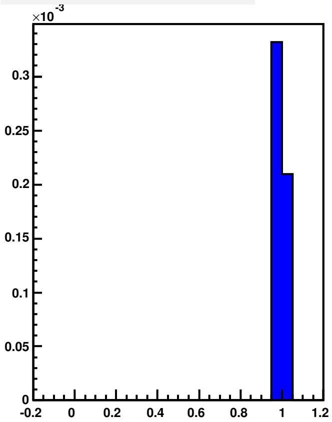

wgamma Drell Yan Neural Net with cut in emu



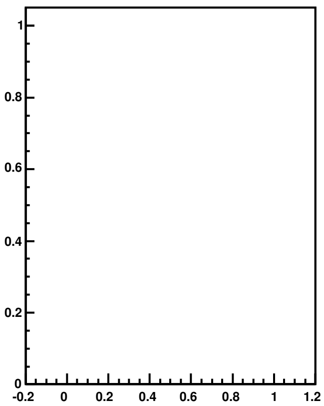

ttbar Drell Yan Neural Net with cut in emu



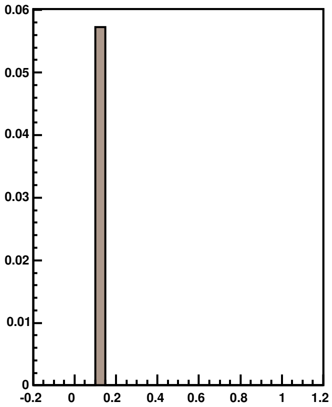

higgsww Drell Yan Neural Net with cut in emu



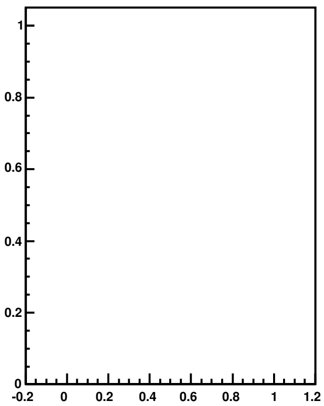

data Drell Yan Neural Net with cut in emu



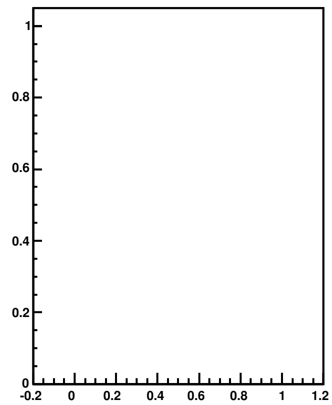

Zee WW Neural Net in emu



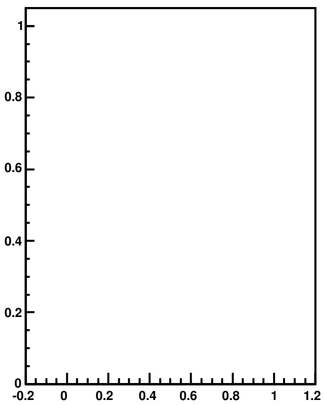

Zmumu WW Neural Net in emu



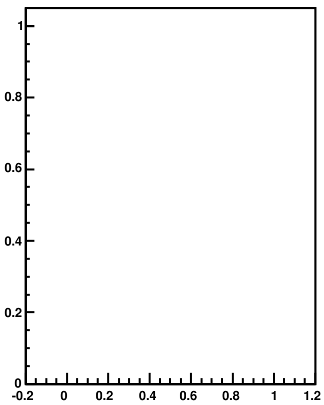

Ztautau WW Neural Net in emu

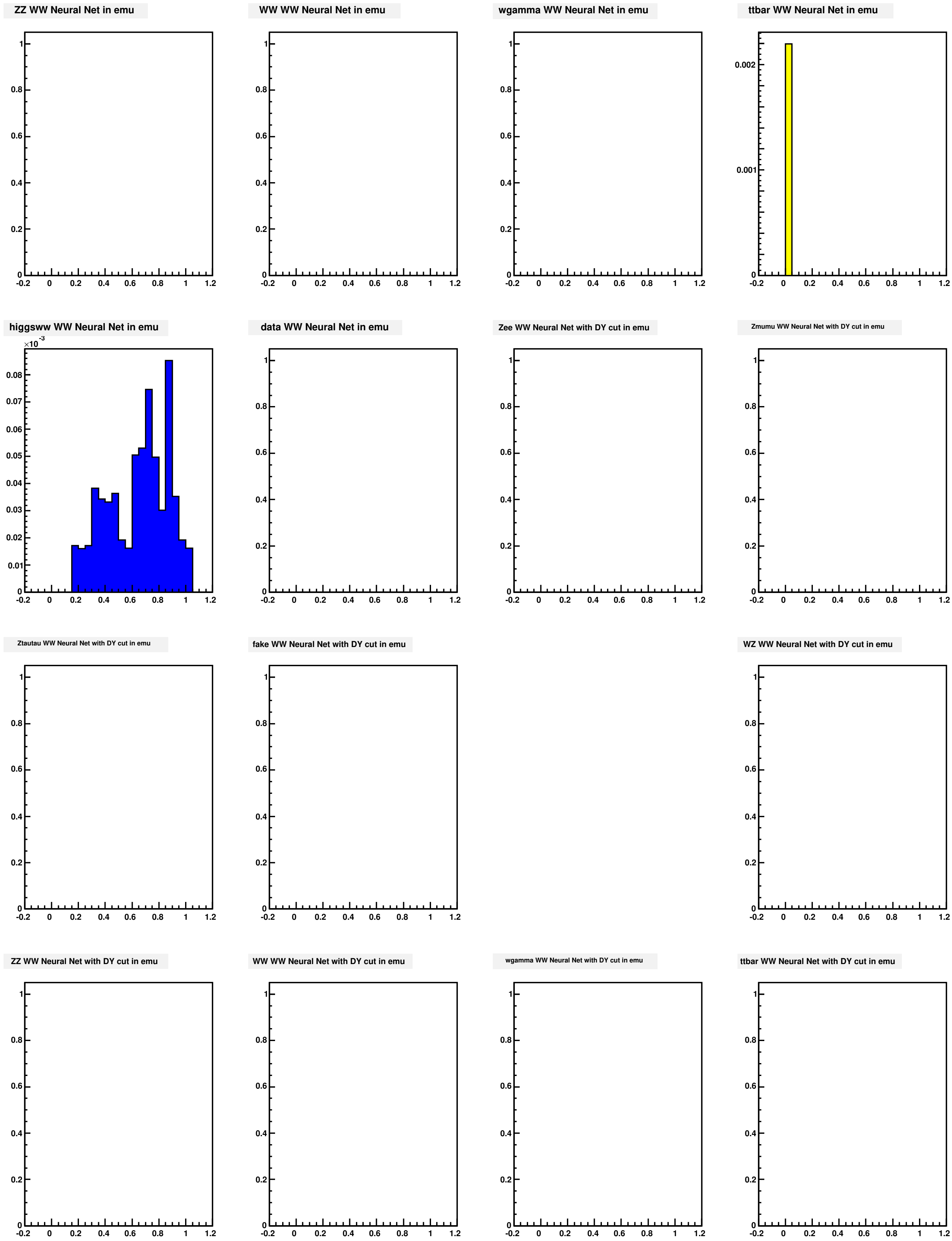



fake WW Neural Net in emu




WZ WW Neural Net in emu




ZZ WW Neural Net in emu
WW WW Neural Net in emu
wgamma WW Neural Net in emu
ttbar WW Neural Net in emu
higgsww WW Neural Net in emu
data WW Neural Net in emu
Zee WW Neural Net with DY cut in emu
Zmumu WW Neural Net with DY cut in emu
Ztautau WW Neural Net with DY cut in emu
fake WW Neural Net with DY cut in emu
WZ WW Neural Net with DY cut in emu
ZZ WW Neural Net with DY cut in emu
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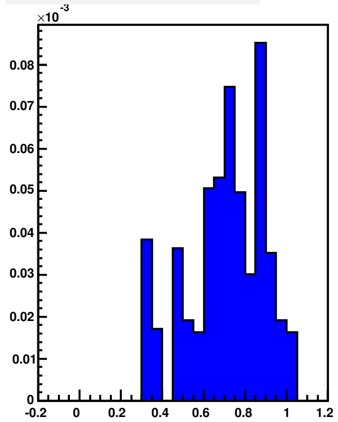
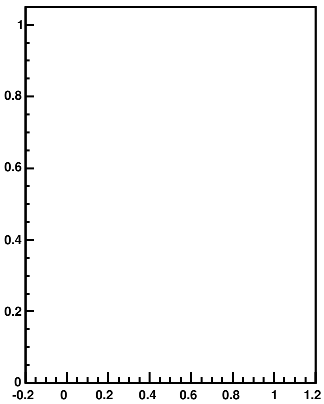
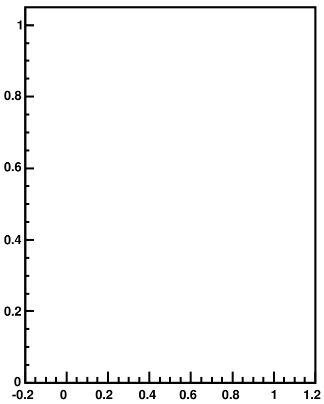


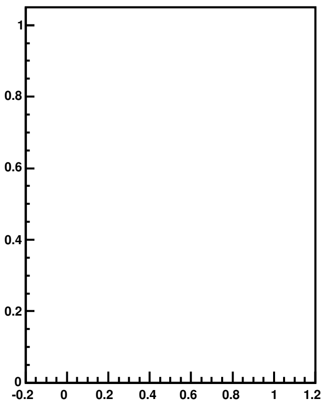

data WW Neural Net with DY cut in emu



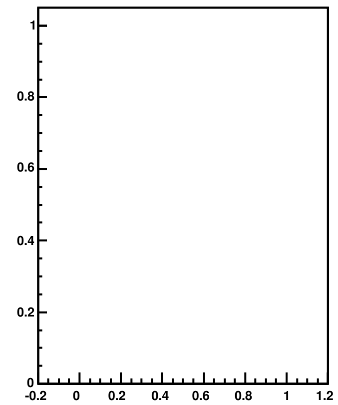

Zee WW+DYcut JESup in emu



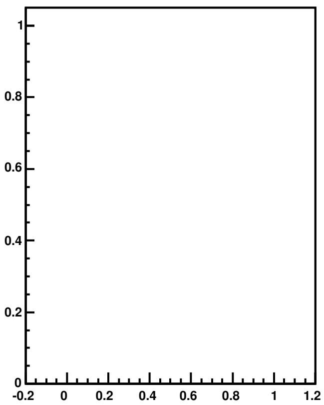

Zmumu WW+DYcut JESup in emu



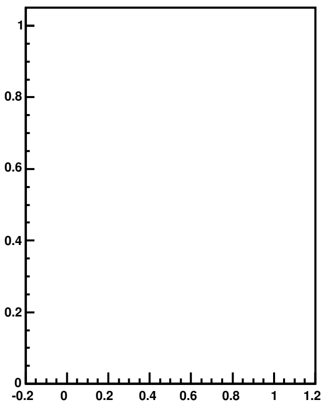

Ztautau WW+DYcut JESup in emu



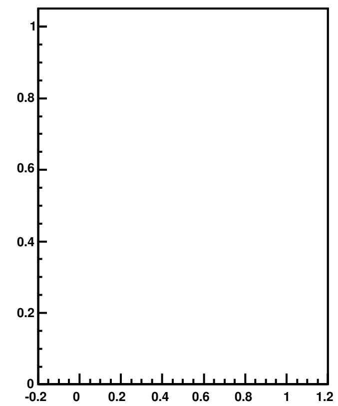

fake WW+DYcut JESup in emu



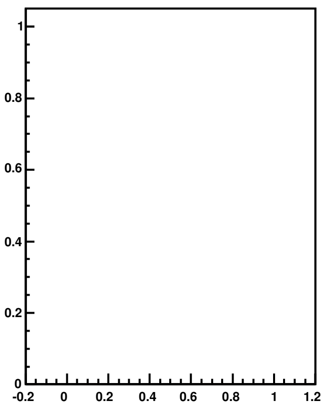

WZ WW+DYcut JESup in emu




ZZ WW+DYcut JESup in emu




WW WW+DYcut JESup in emu

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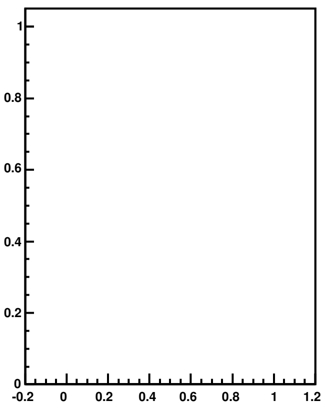


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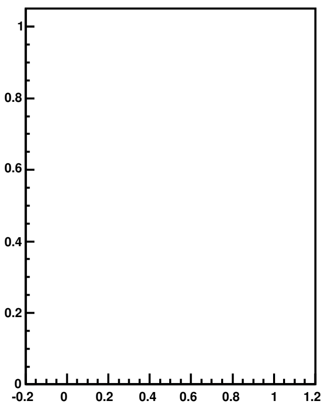


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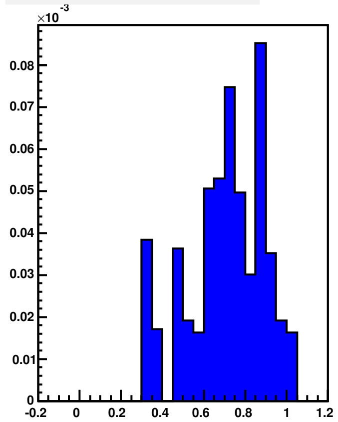


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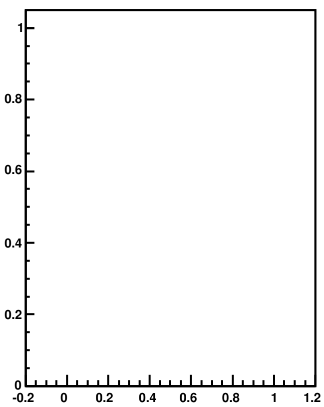


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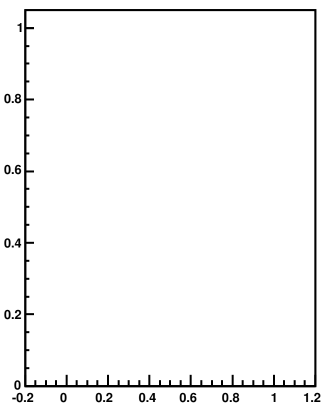


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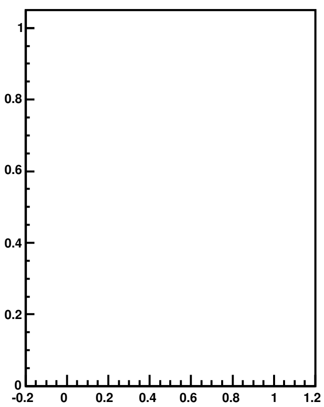

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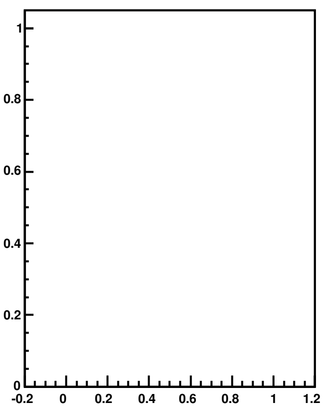

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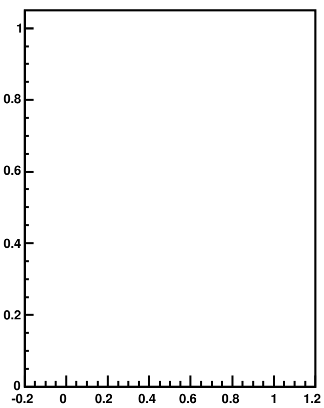

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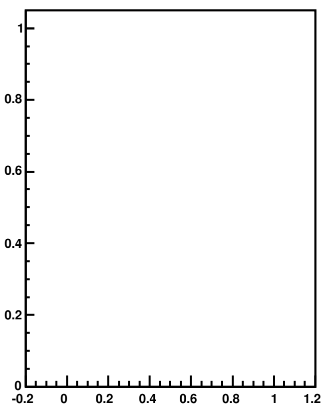

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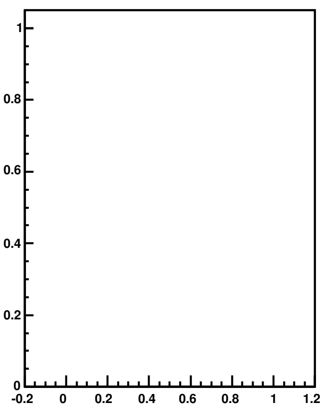

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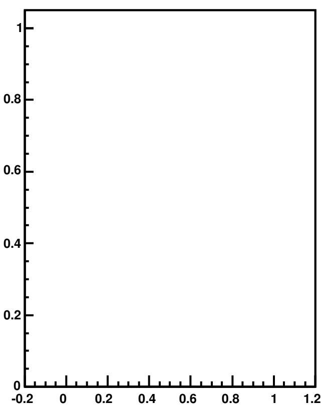

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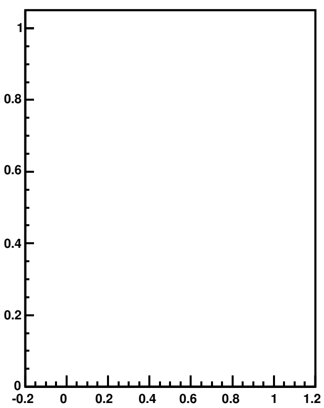

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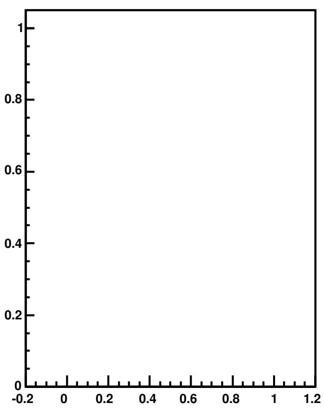

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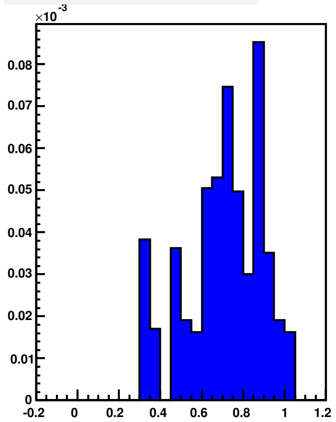


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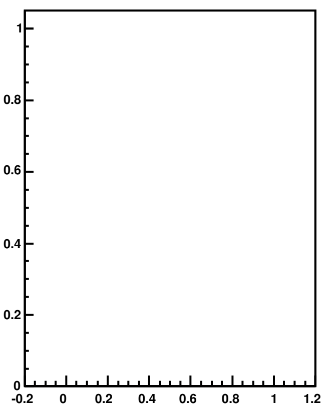

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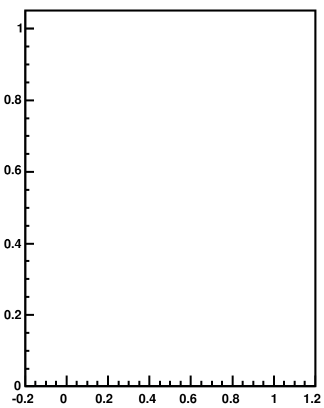

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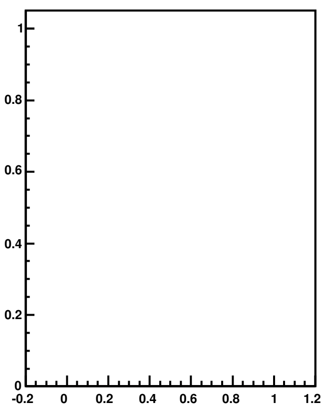

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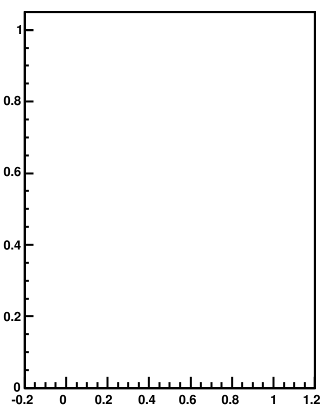

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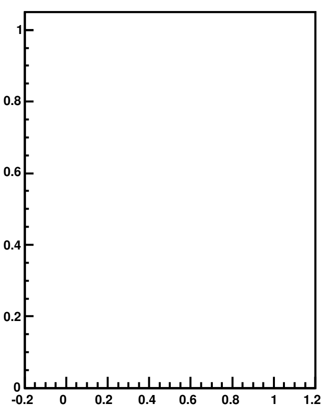

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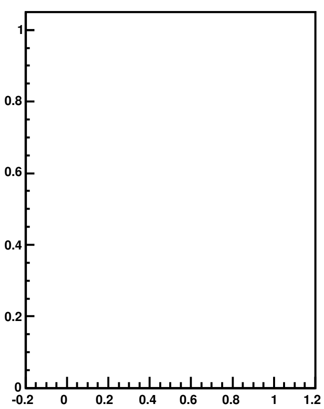

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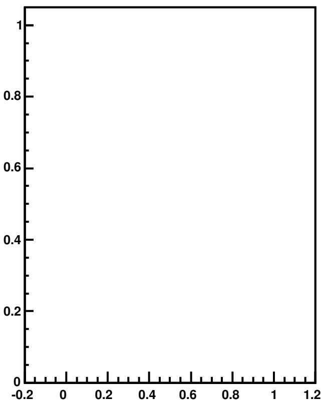


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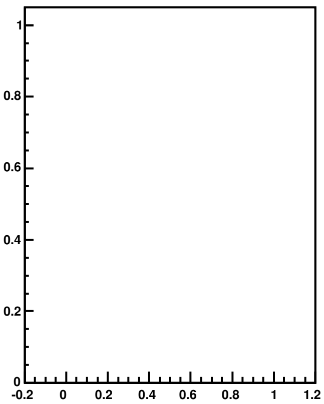


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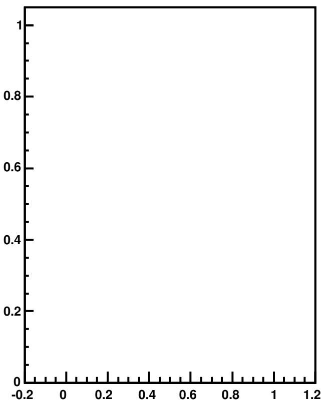
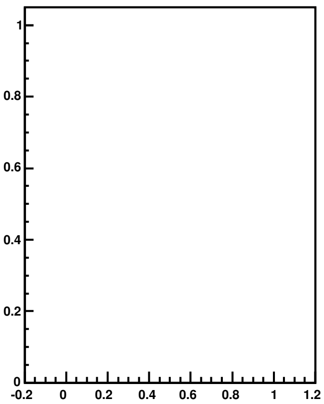



ttbar WW+DYcut LESup in emu

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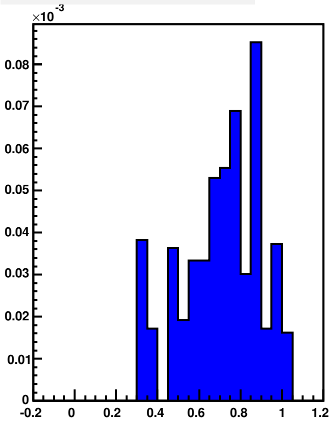


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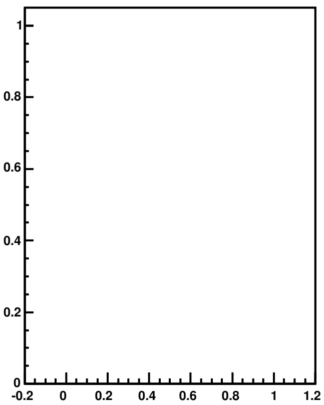


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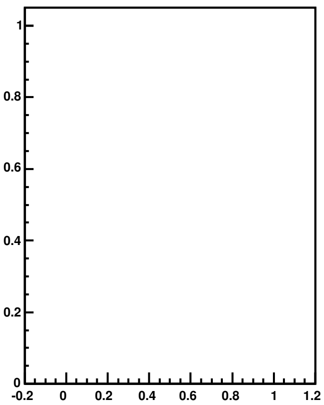


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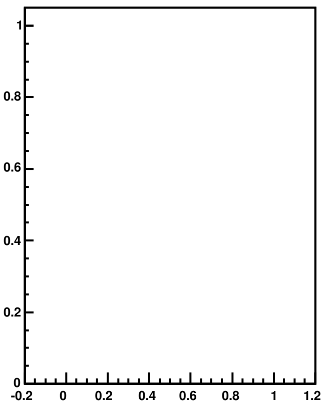


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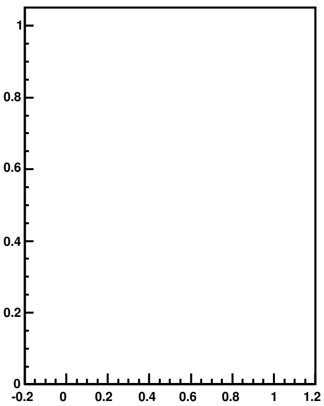
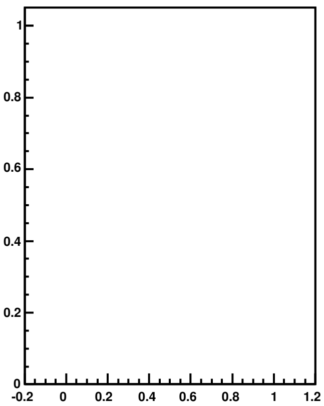



fake WW+DYcut LESdn in emu

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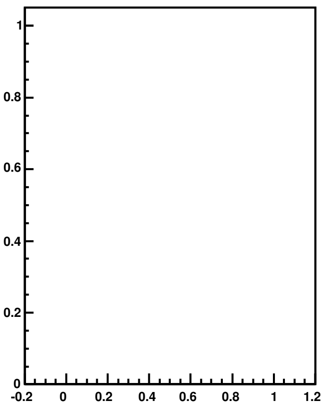


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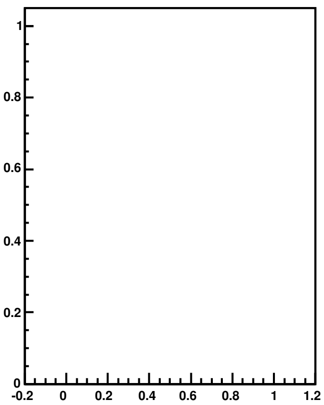


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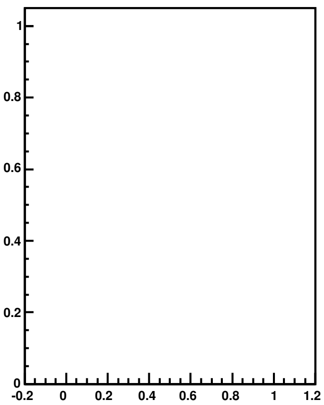


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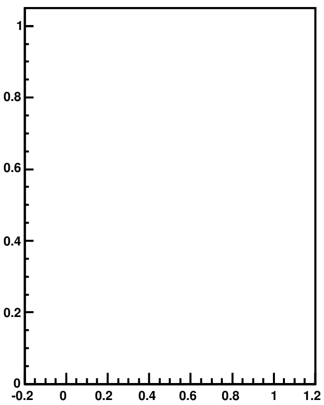


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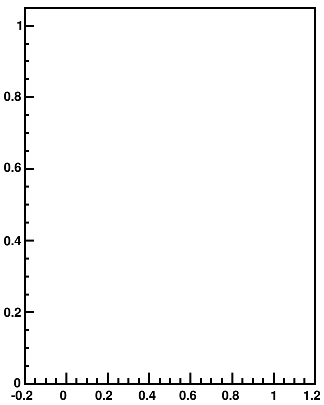

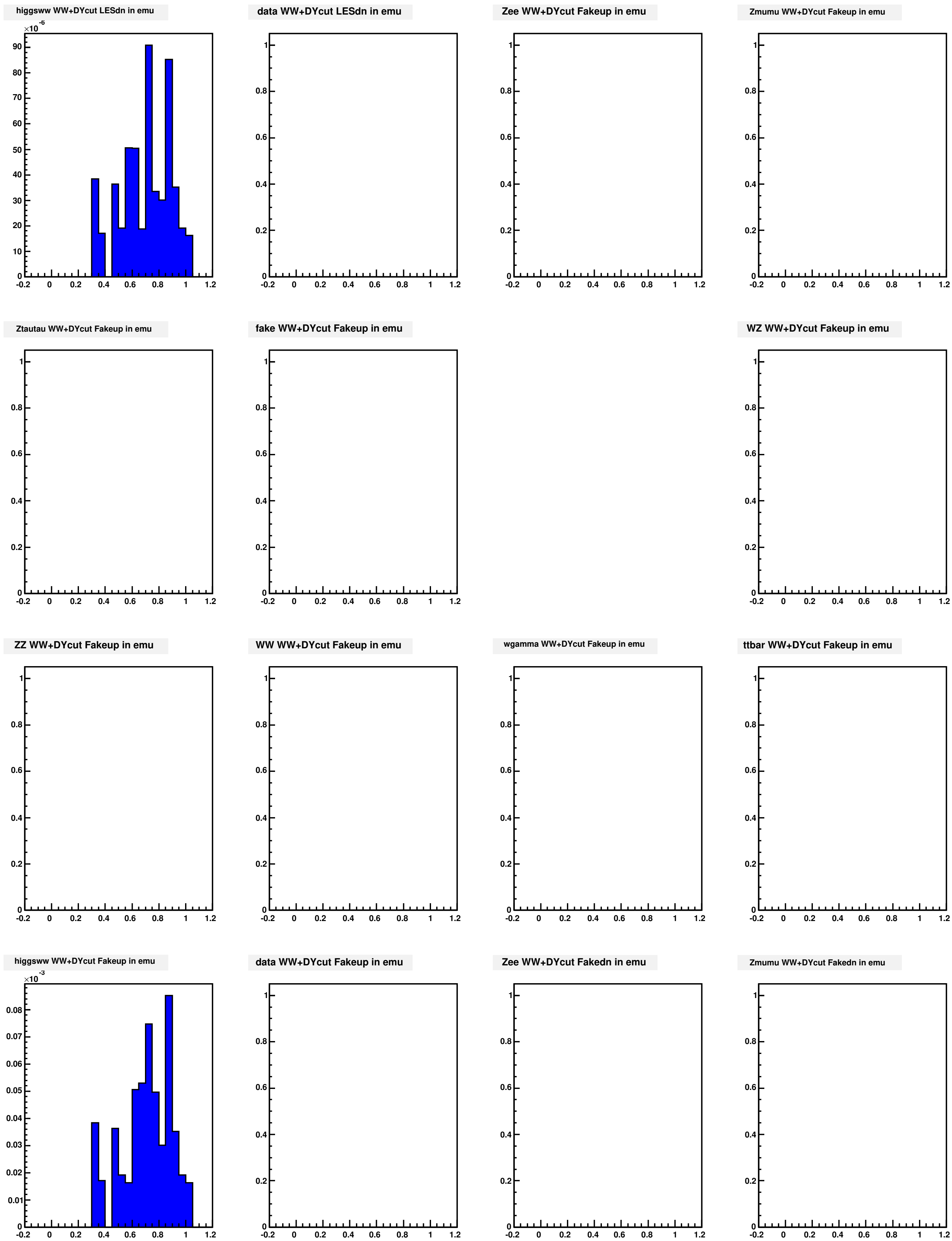

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Zee WW+DYcut Fakeup in emu
Zmumu WW+DYcut Fakeup in emu
Ztautau WW+DYcut Fakeup in emu
fake WW+DYcut Fakeup in emu
WZ WW+DYcut Fakeup in emu
ZZ WW+DYcut Fakeup in emu
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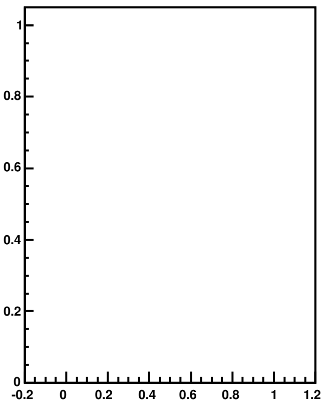

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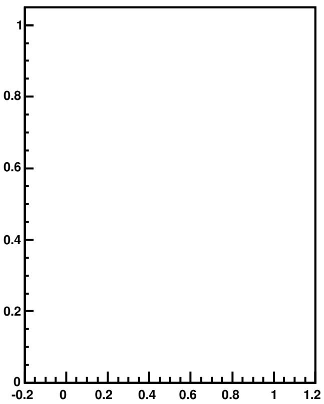

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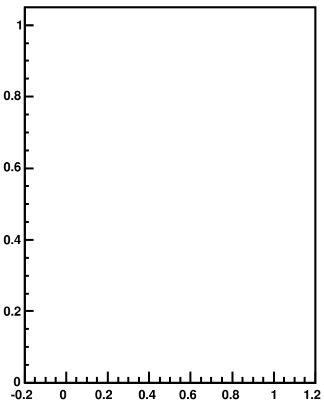

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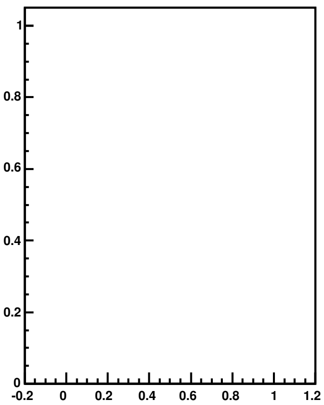

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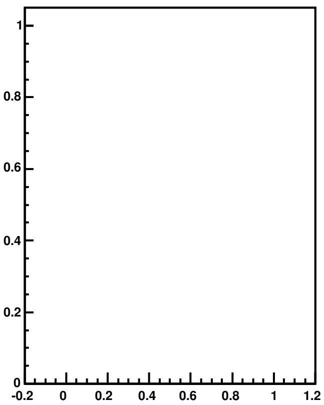

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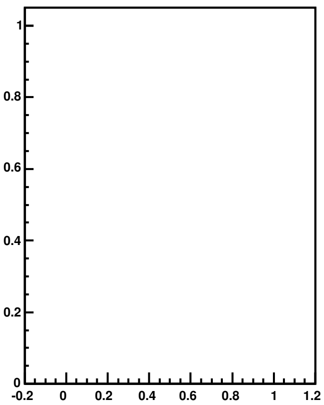

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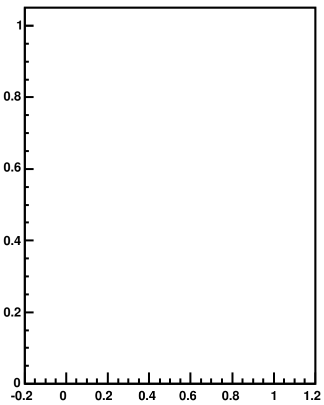

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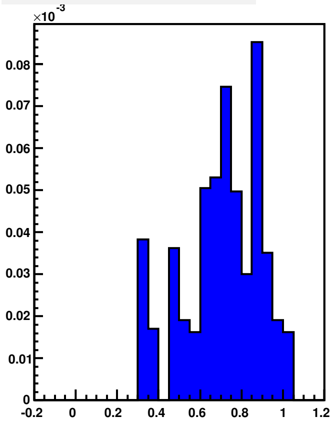

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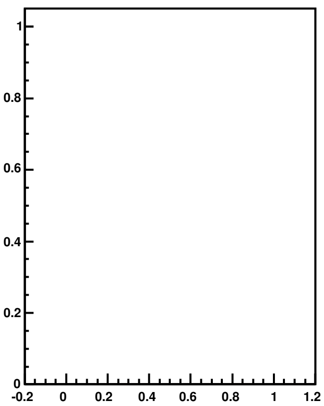

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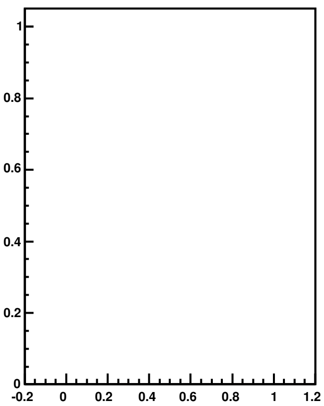

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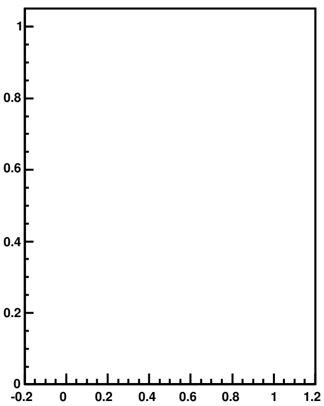

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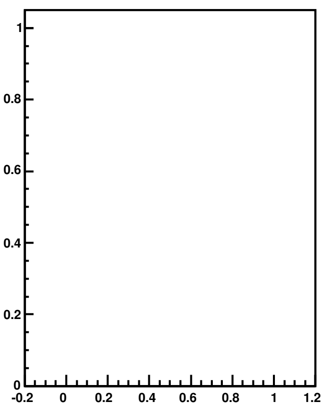

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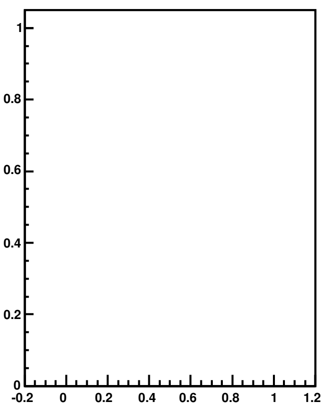

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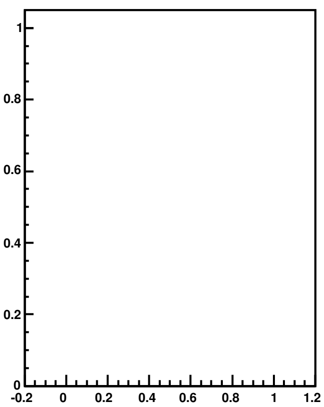

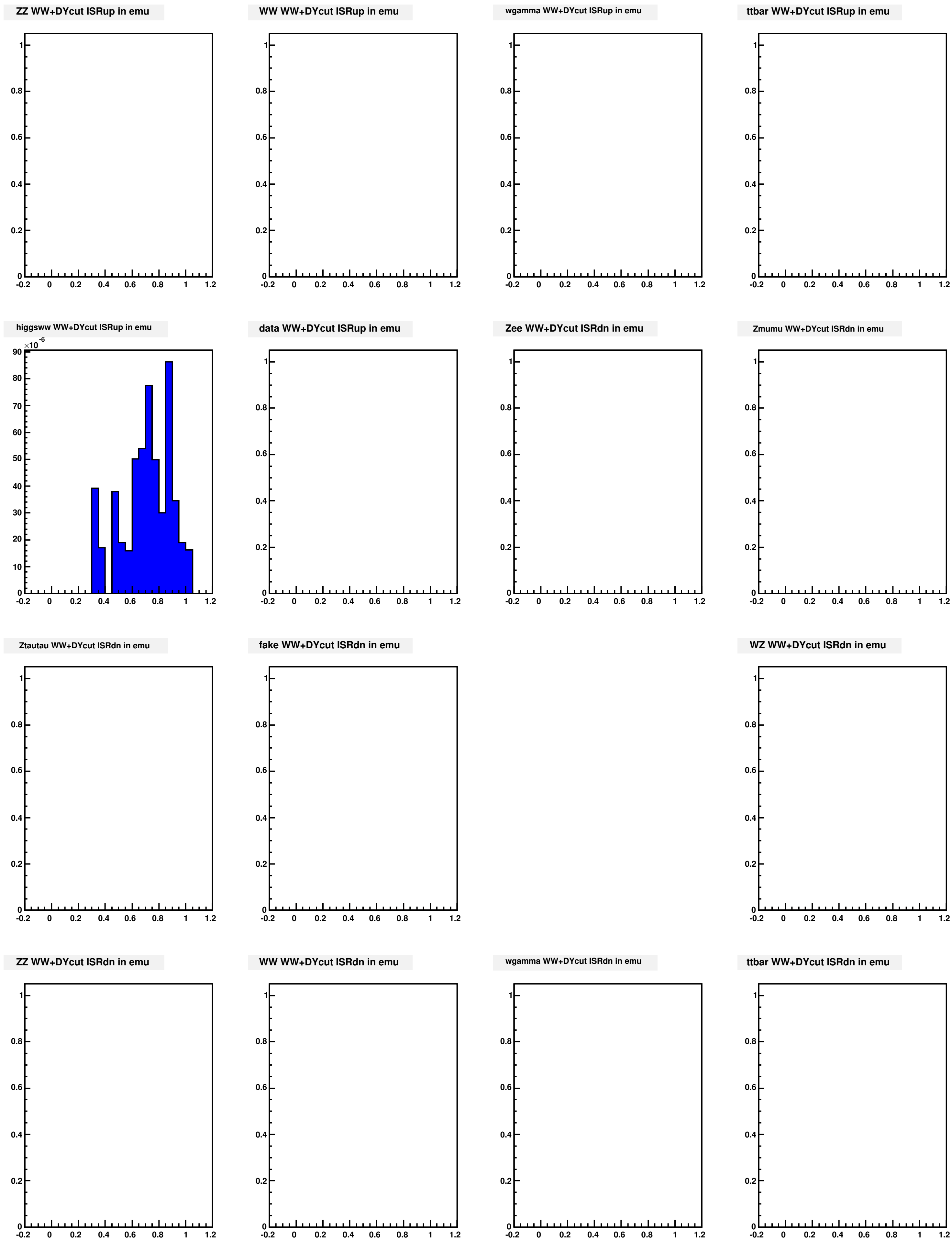

ZZ WW+DYcut ISRup in emu
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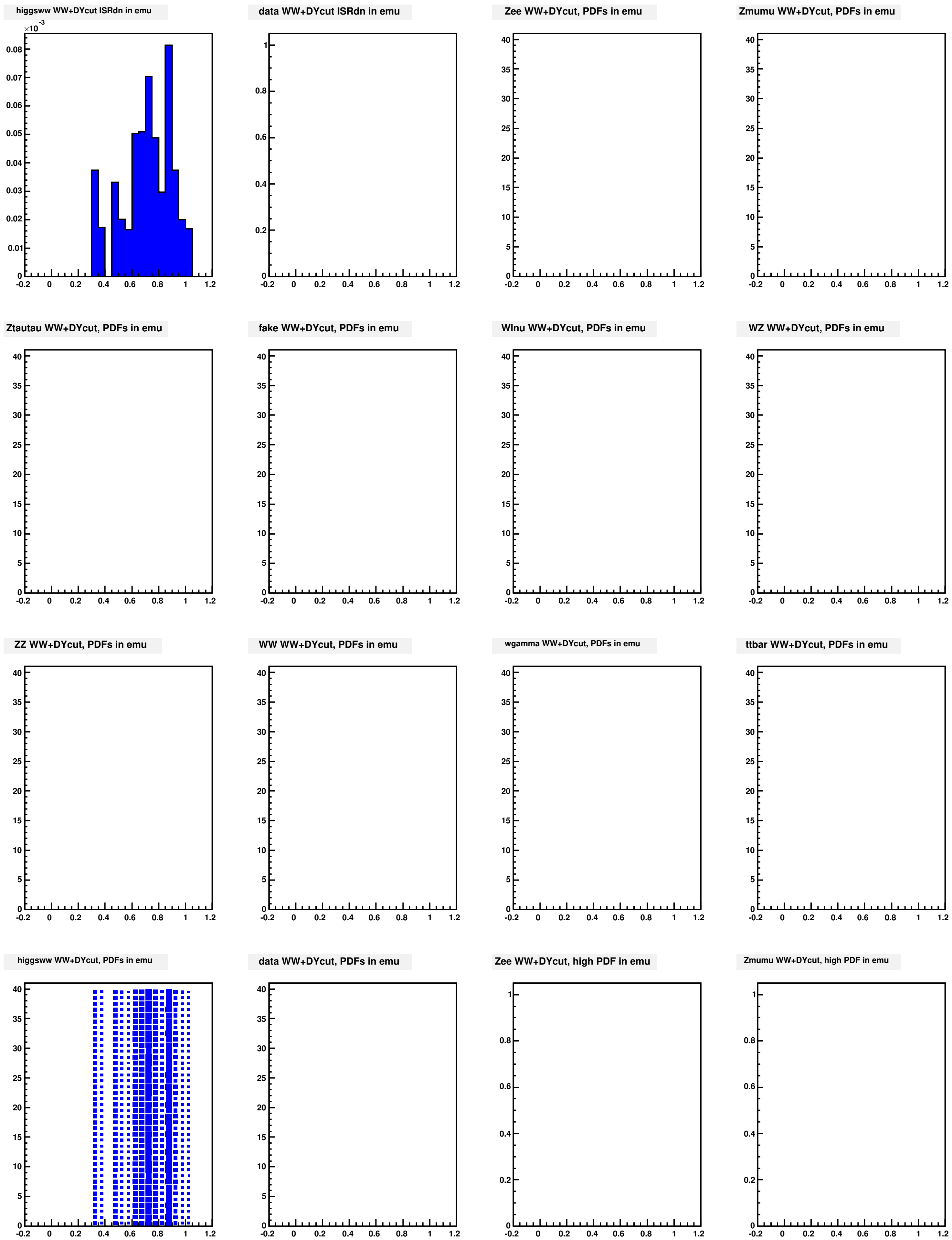

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ZZ WW+DYcut, PDFs in emu
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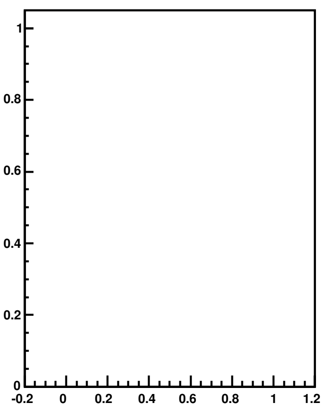
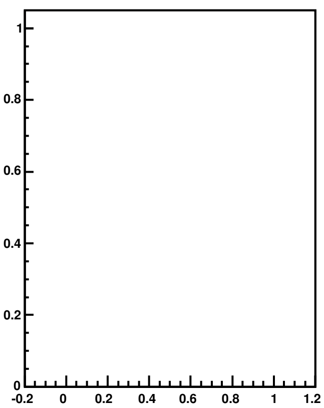
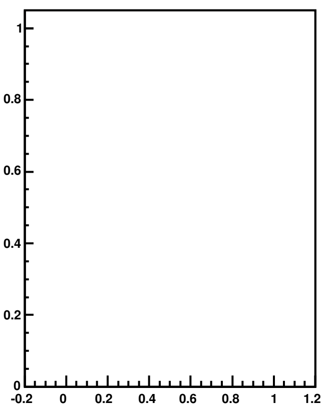


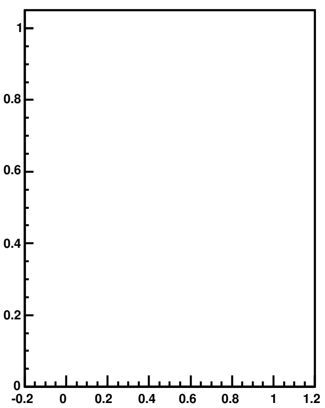
fake WW Neural Net with DY cut in emu



WZ WW+DYcut, high PDF in emu



ZZ WW+DYcut, high PDF in emu



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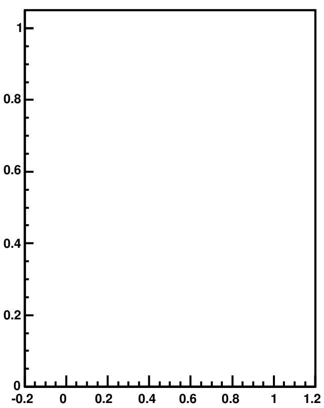
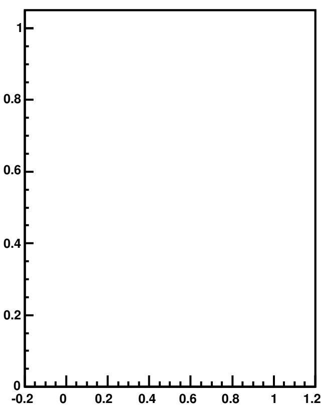
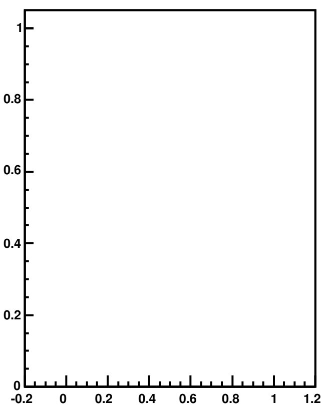


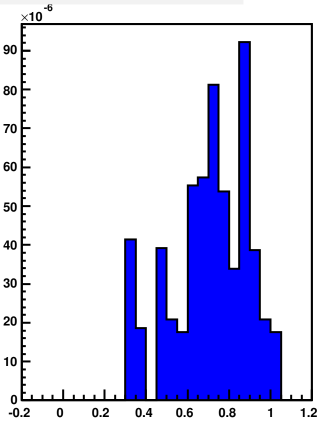
wgamma WW+DYcut, high PDF in emu



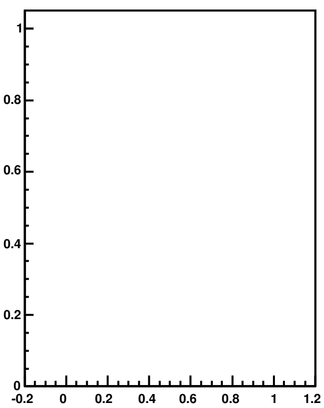
ttbar WW+DYcut, high PDF in emu



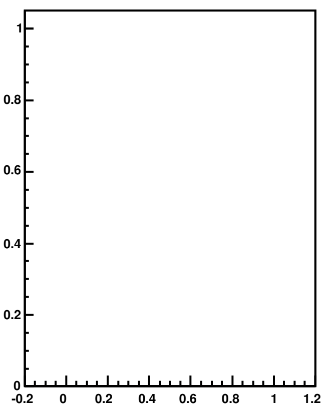
higgsww WW+DYcut, high PDF in emu



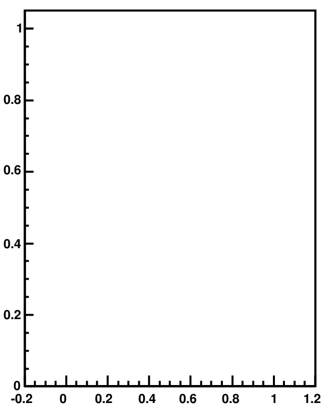

data WW Neural Net with DY cut in emu



Zee WW+DYcut, low PDF in emu



Zmumu WW+DYcut, low PDF in emu



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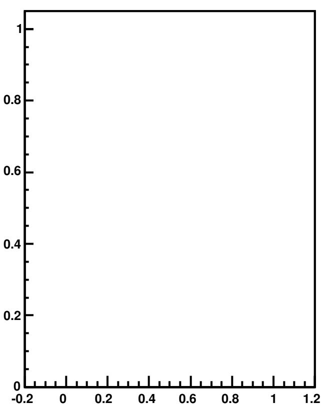

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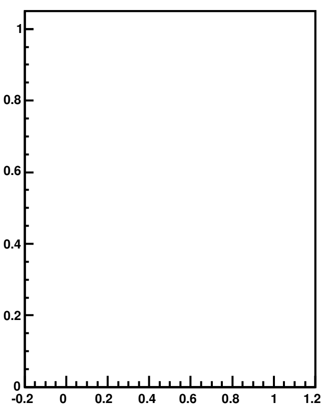

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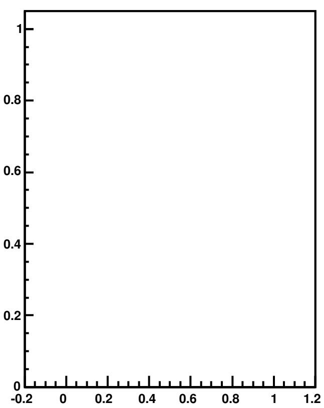

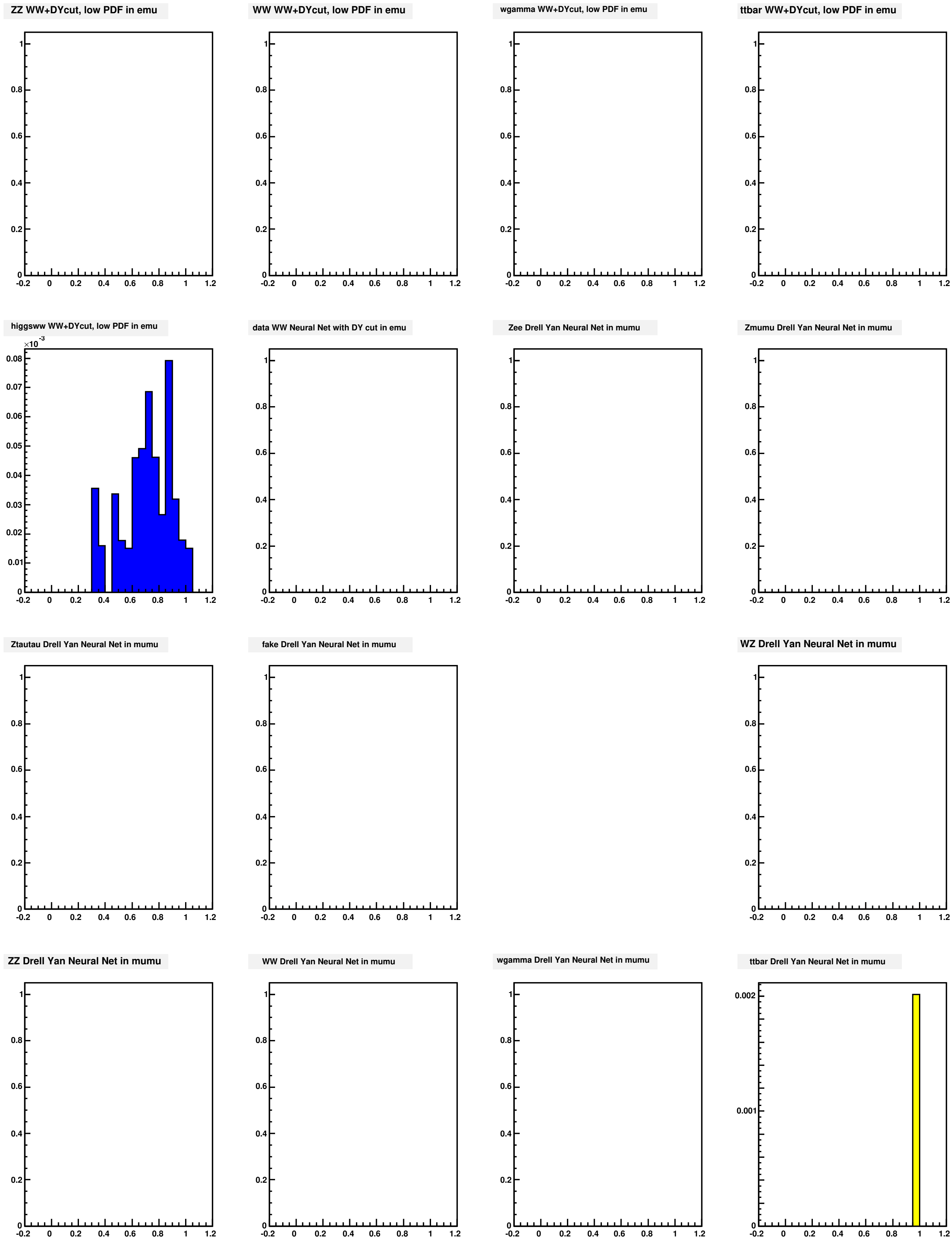
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WW WW+DYcut, low PDF in emu
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ttbar WW+DYcut, low PDF in emu
higgsww WW+DYcut, low PDF in emu
data WW Neural Net with DY cut in emu
Zee Drell Yan Neural Net in mumu
Zmumu Drell Yan Neural Net in mumu
Ztautau Drell Yan Neural Net in mumu
fake Drell Yan Neural Net in mumu
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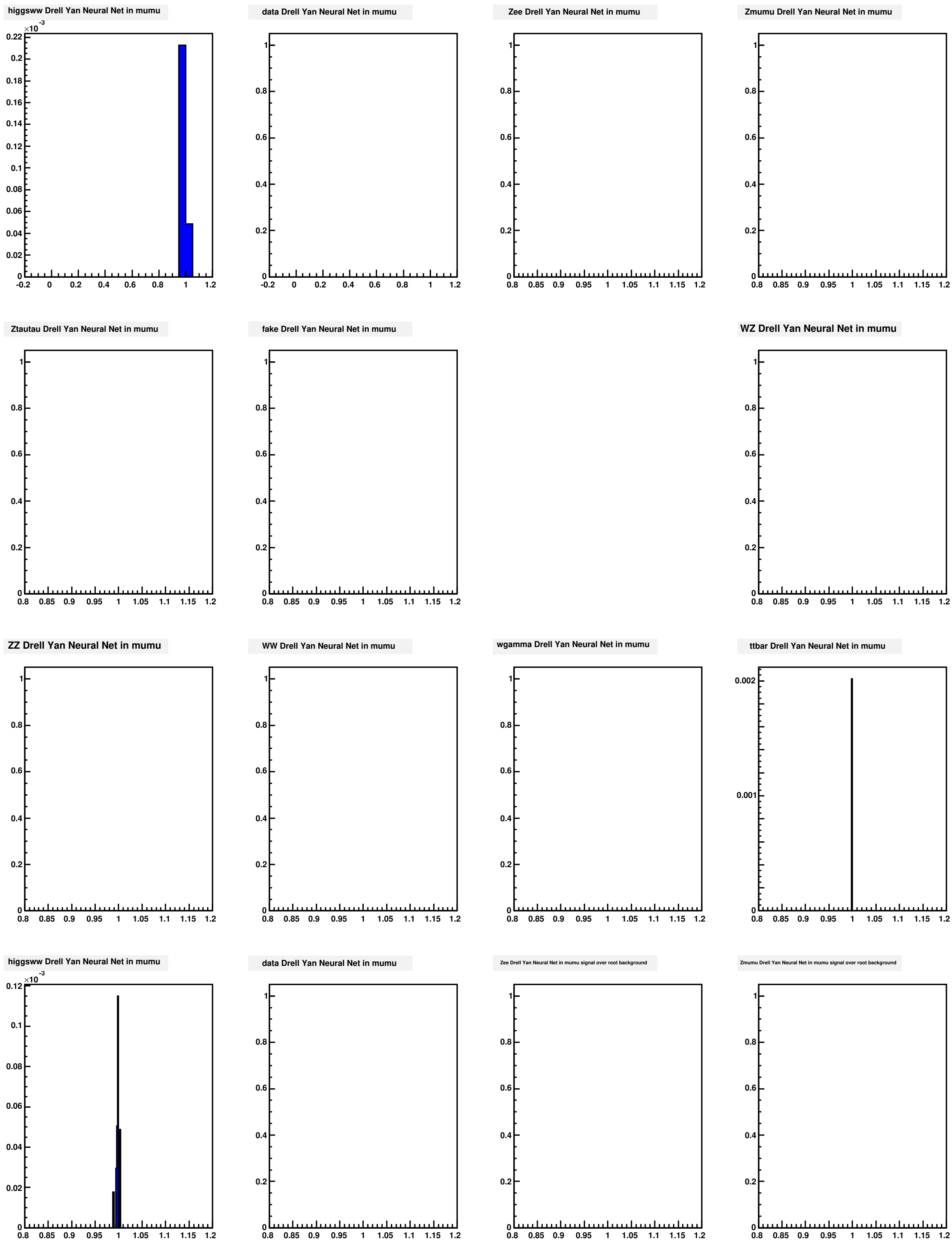

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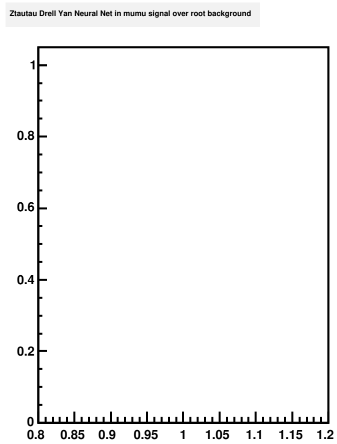
Zee Drell Yan Neural Net in mumu signal over root background
Zmumu Drell Yan Neural Net in mumu signal over root background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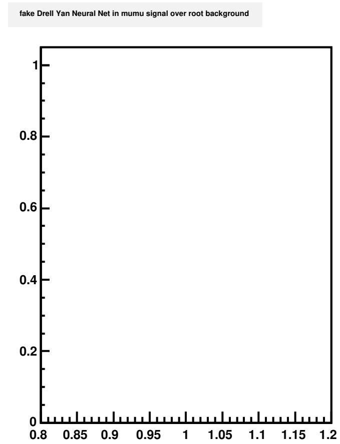
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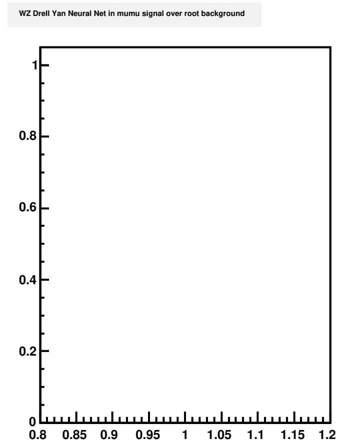
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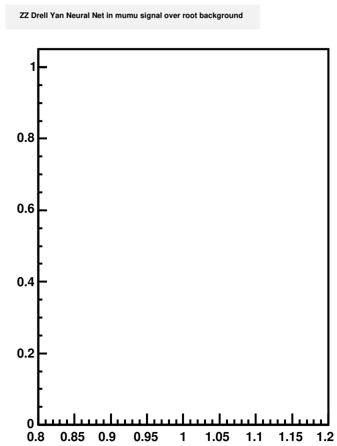
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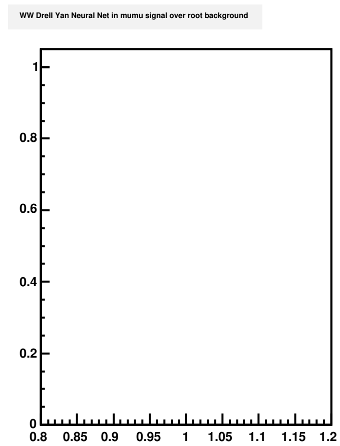
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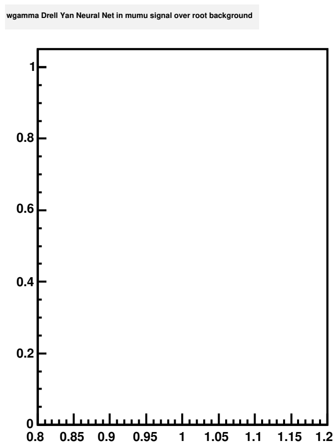
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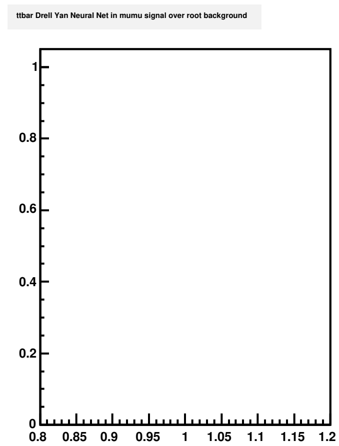
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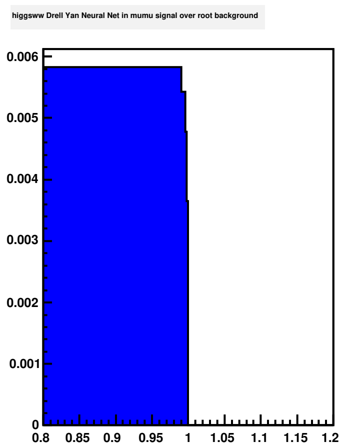
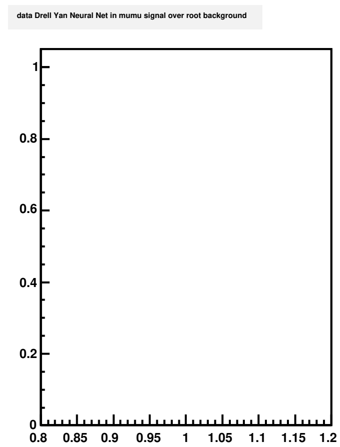

higgsww Drell Yan Neural Net in mumu signal over root background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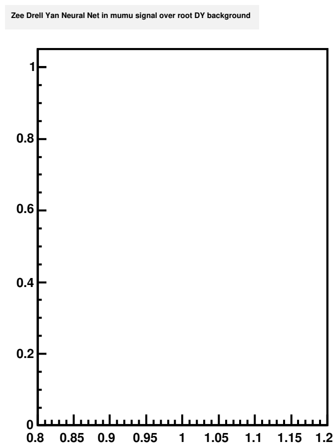
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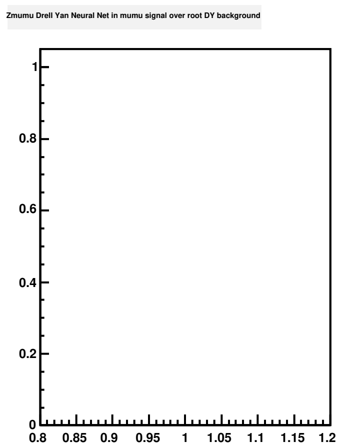
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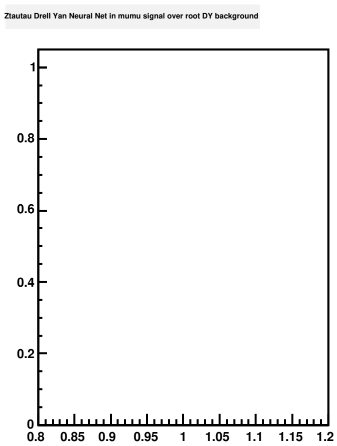
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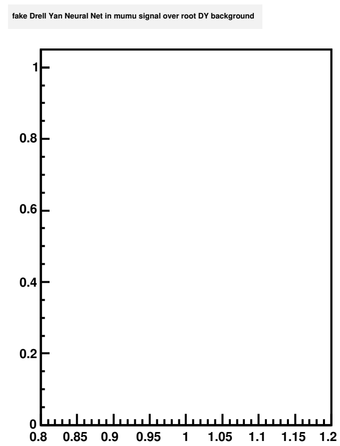
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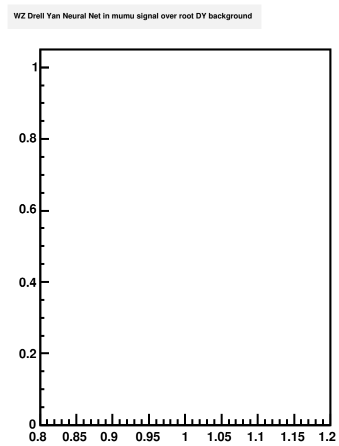
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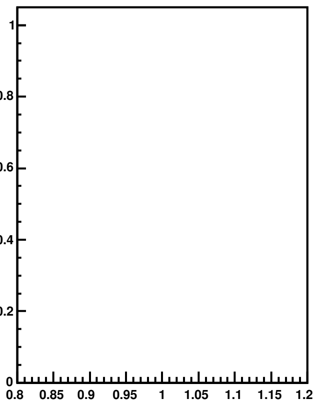

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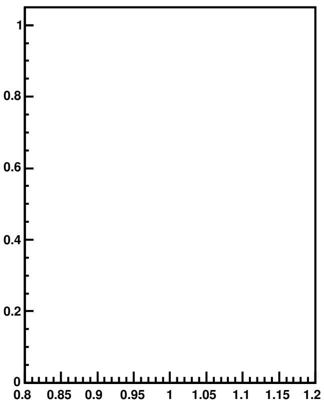

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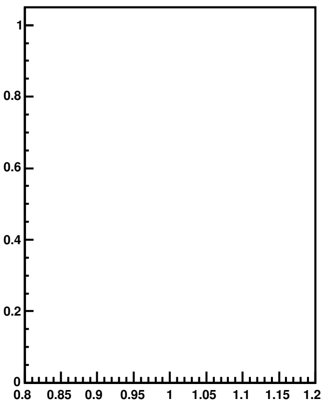

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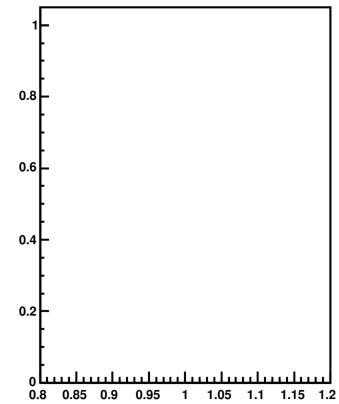

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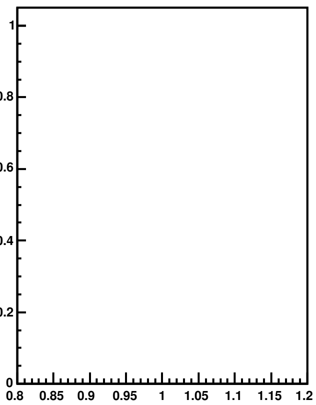

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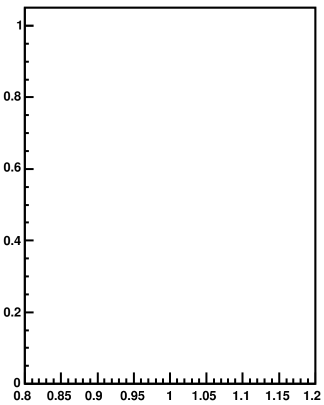
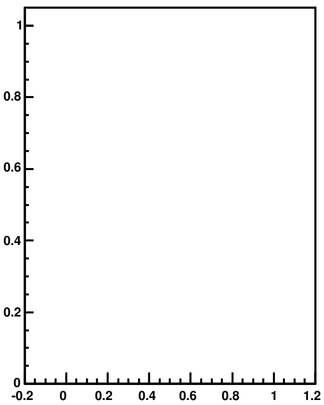


Zee Drell Yan Neural Net with cut in mumu



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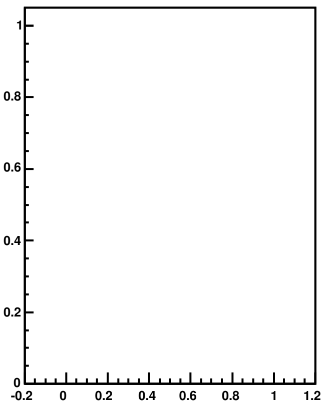

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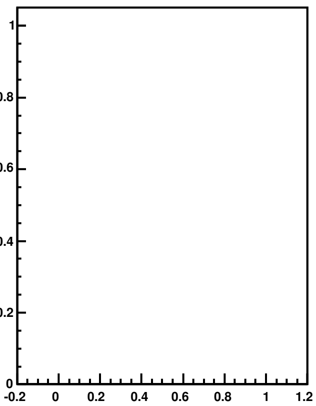

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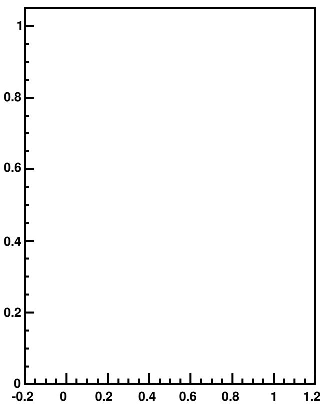

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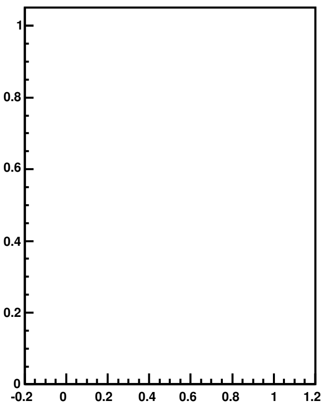

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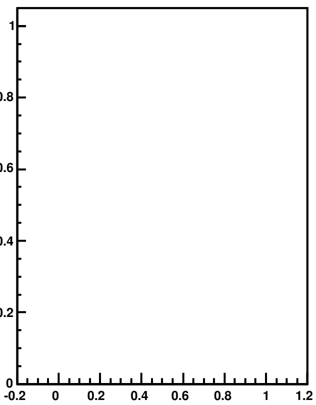

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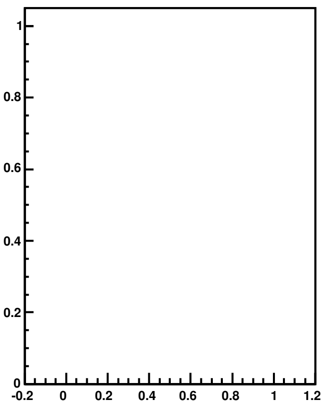

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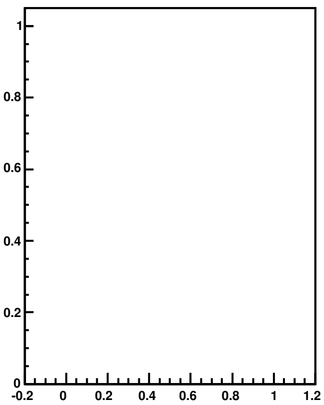

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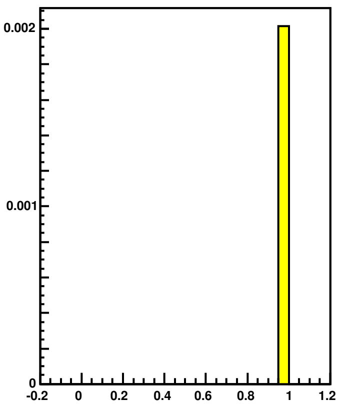

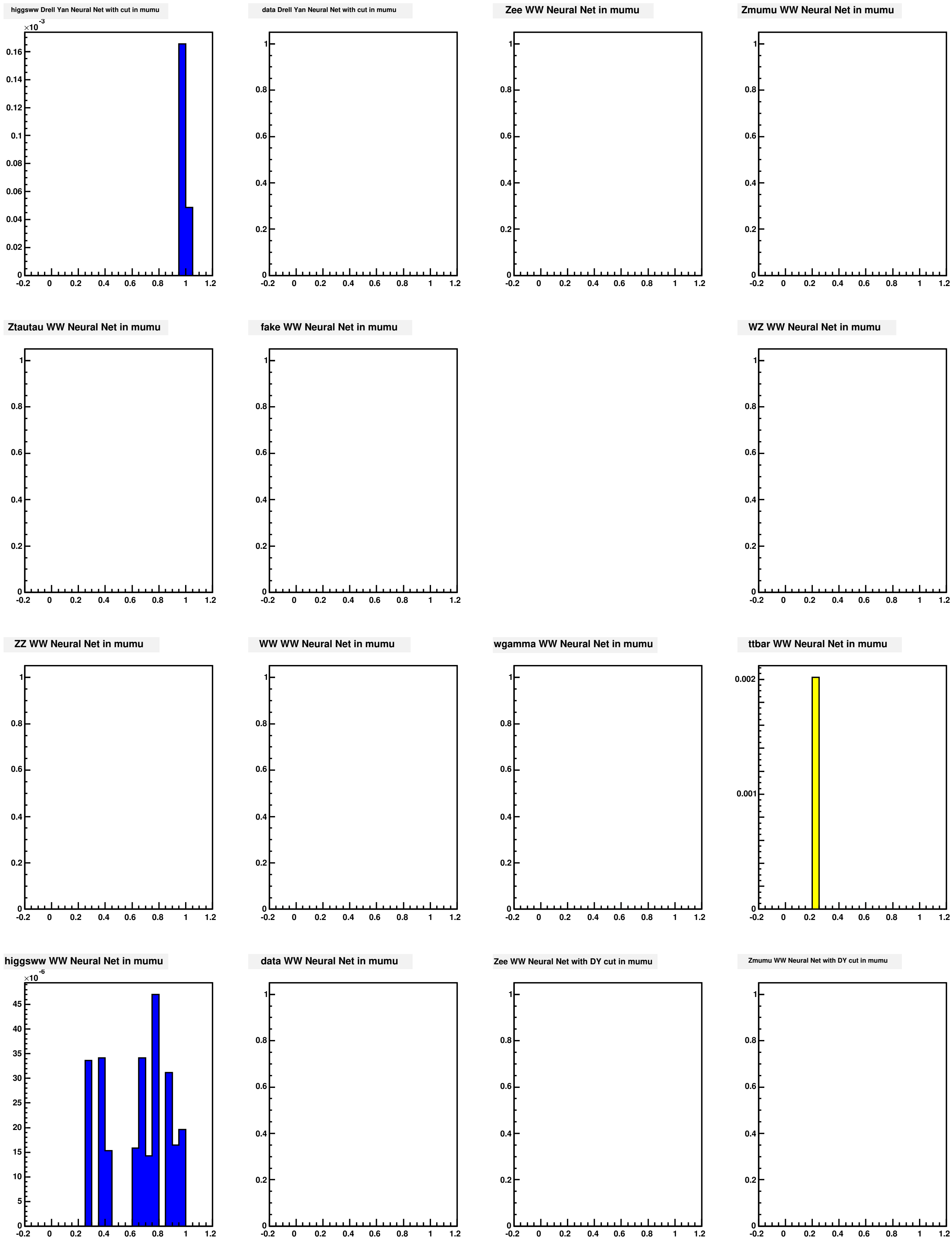
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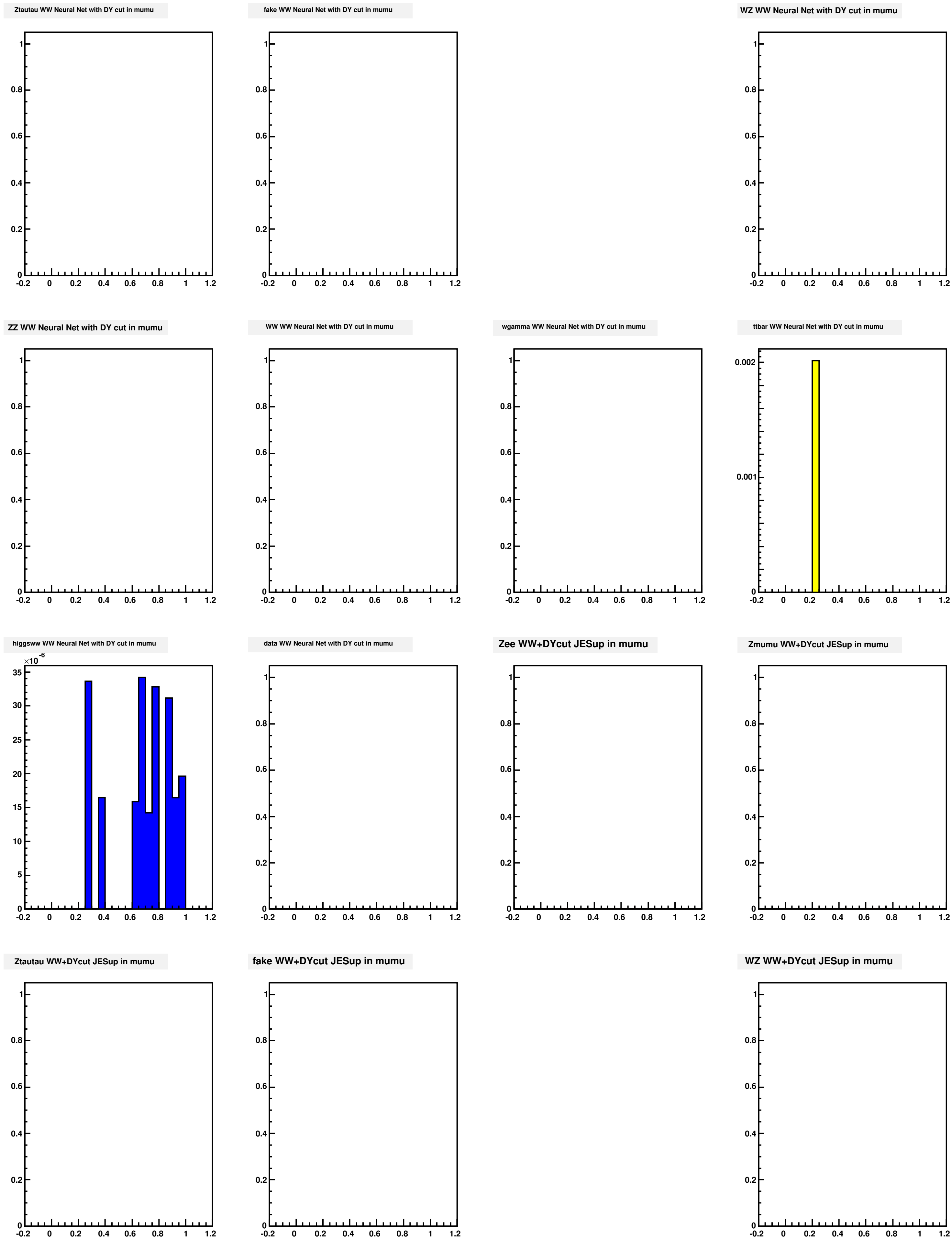
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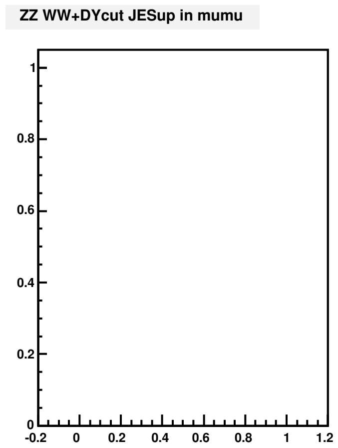
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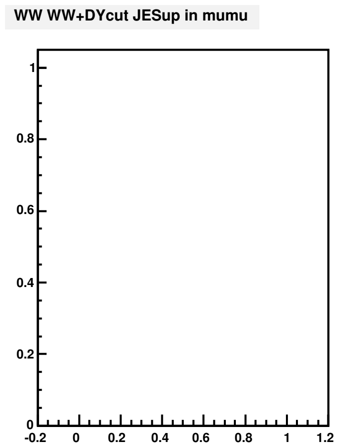
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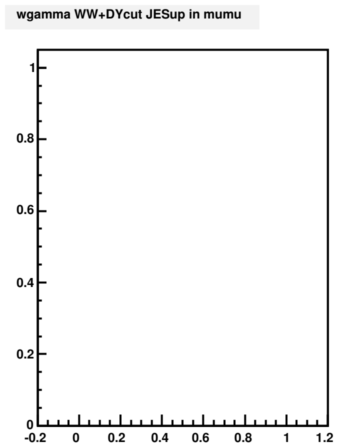
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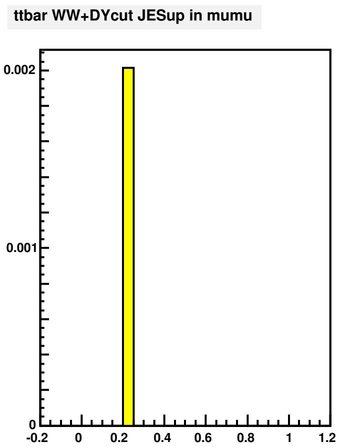
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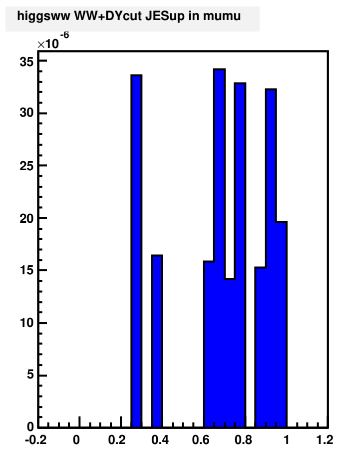
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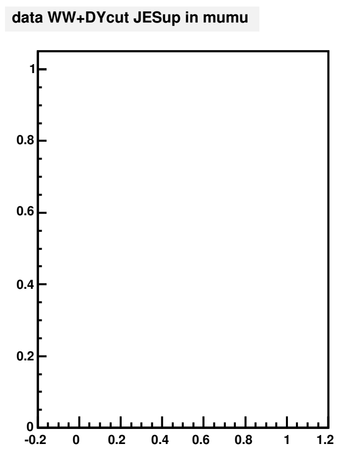
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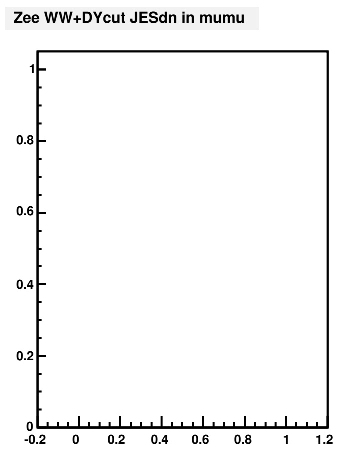
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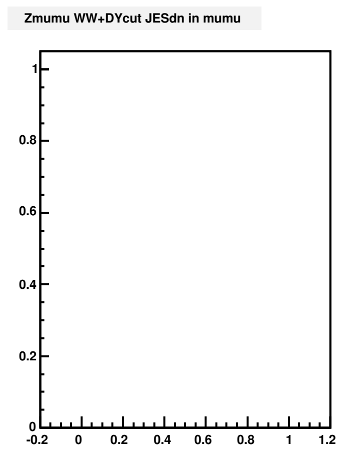
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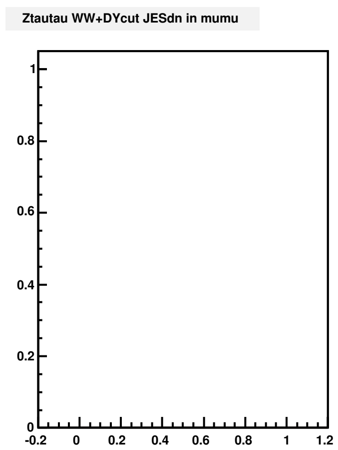
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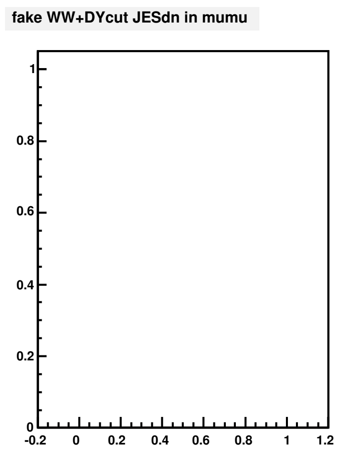
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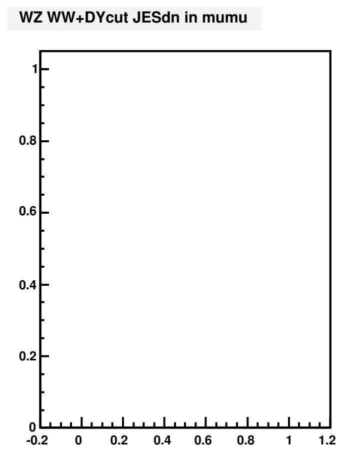
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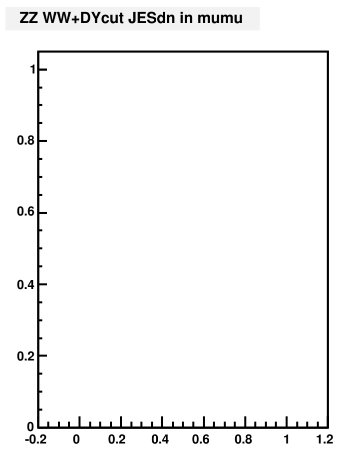
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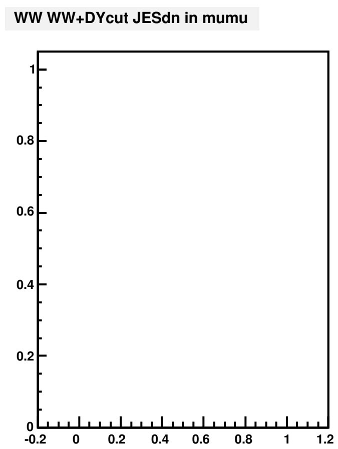
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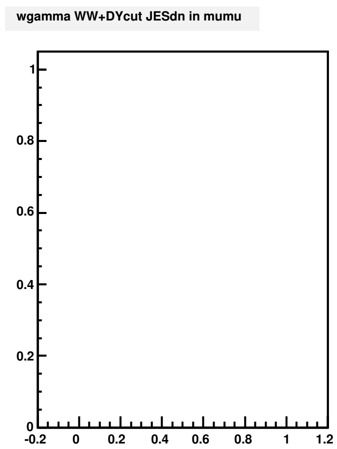
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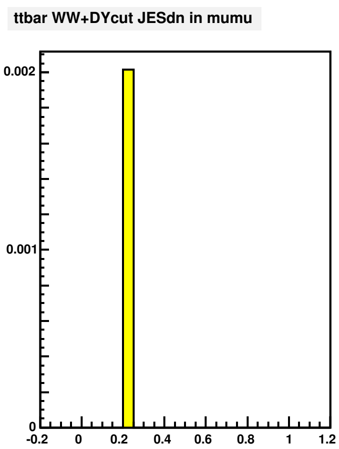
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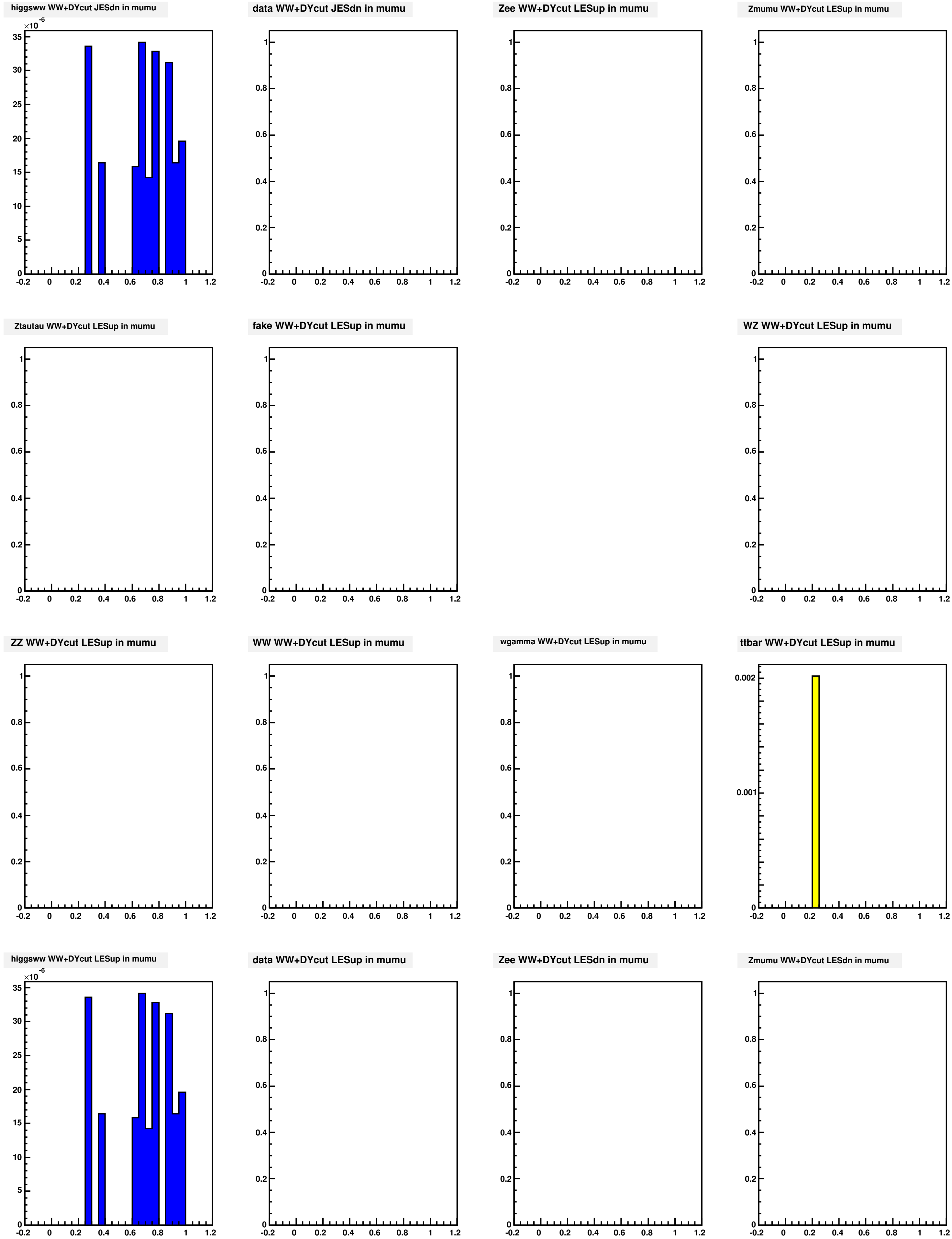

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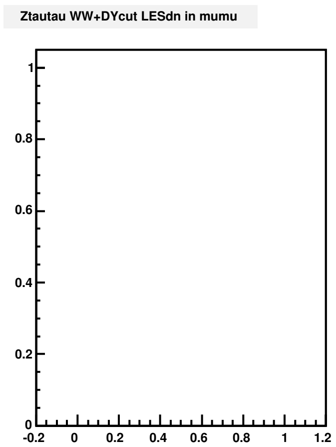
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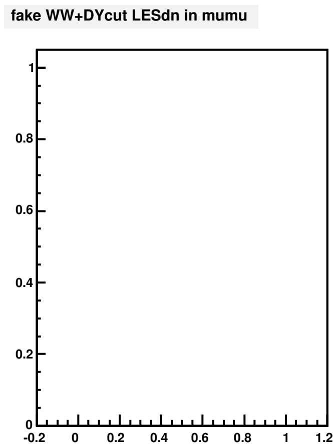
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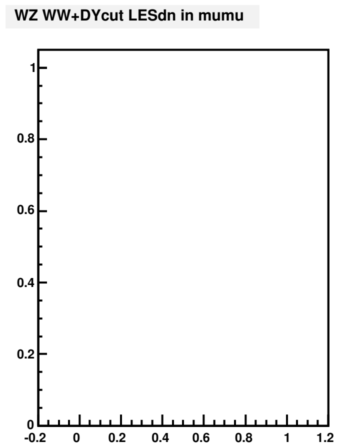
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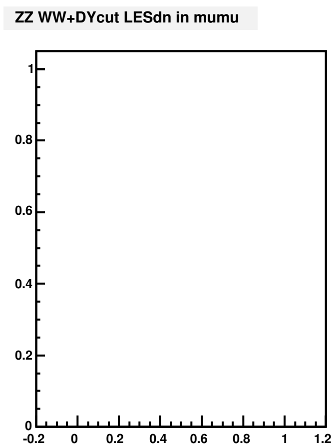
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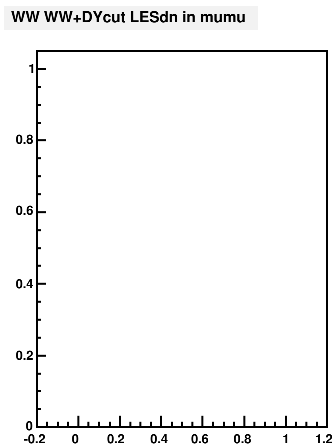
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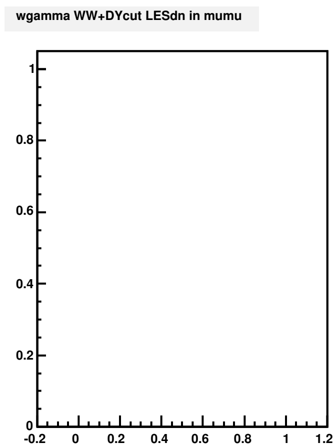
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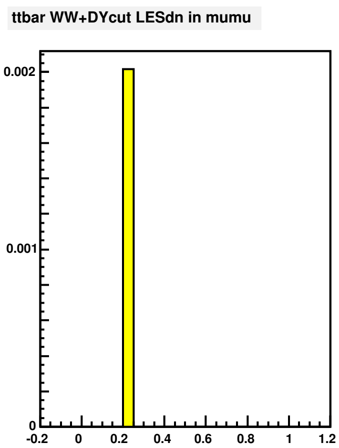
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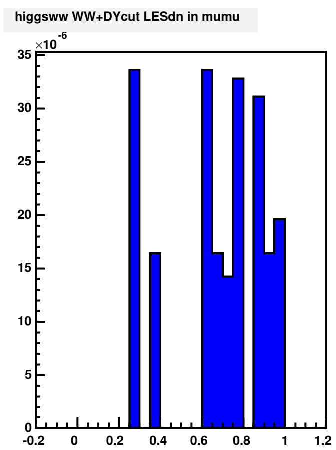
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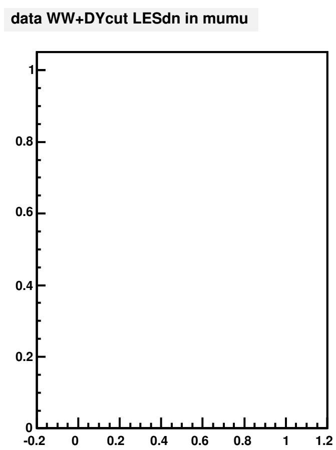
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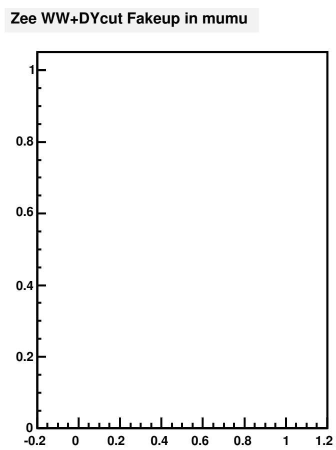
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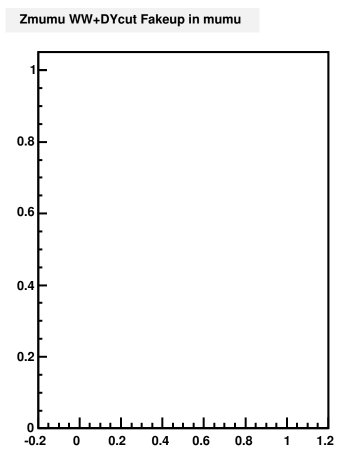
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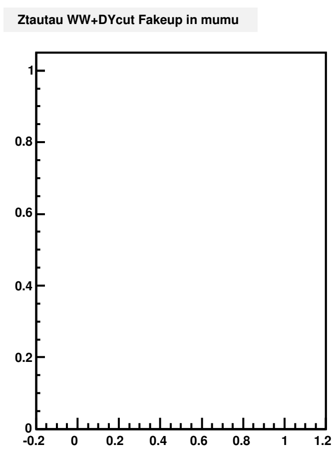
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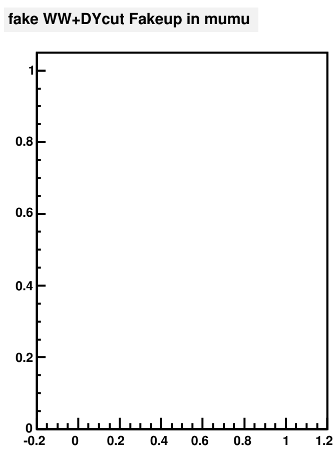
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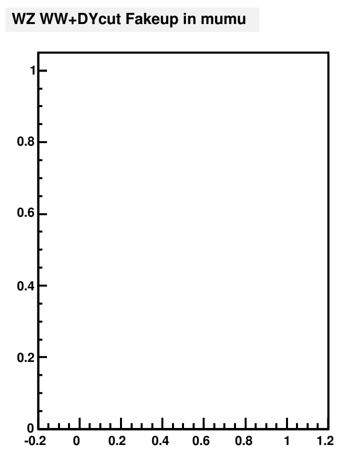
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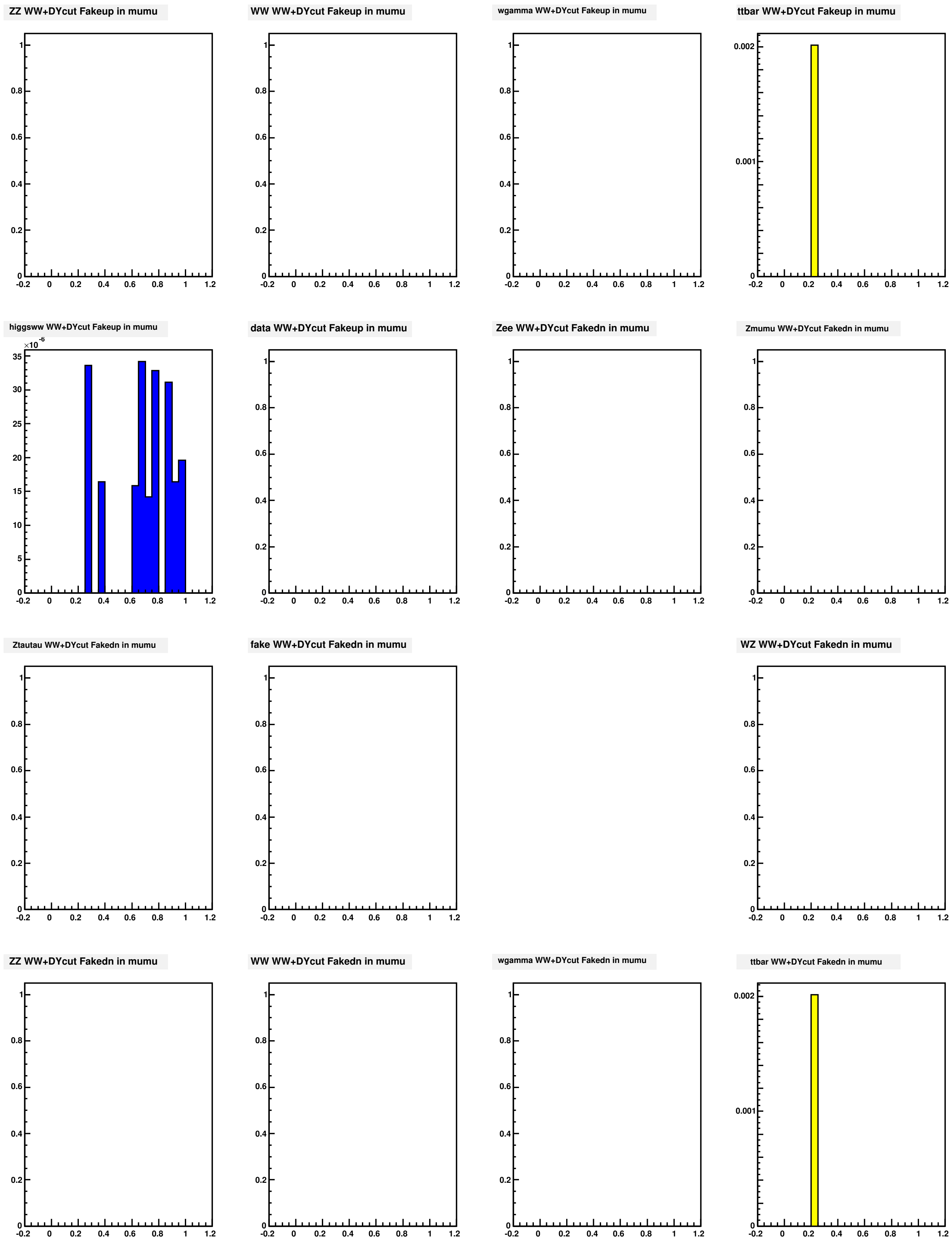

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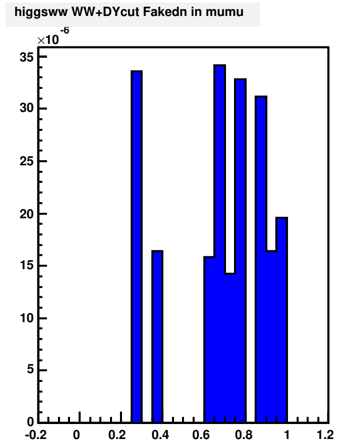
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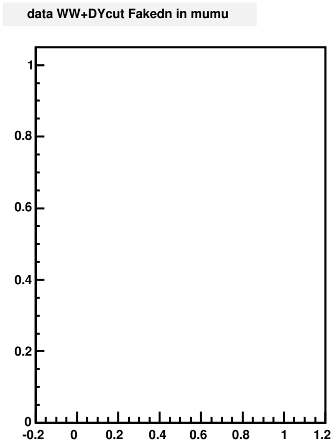
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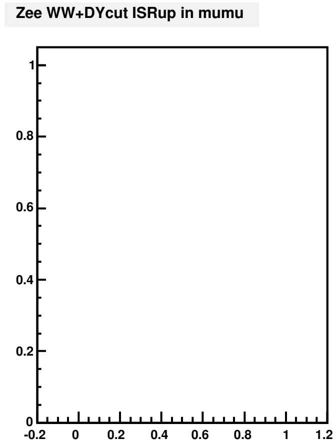
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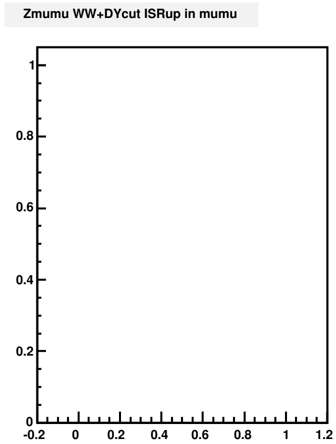
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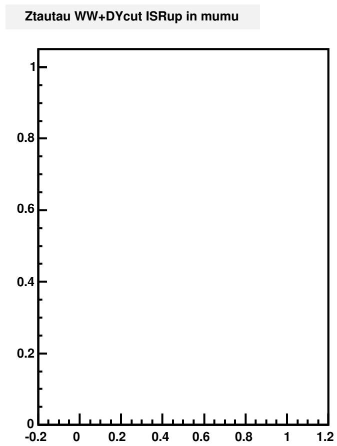
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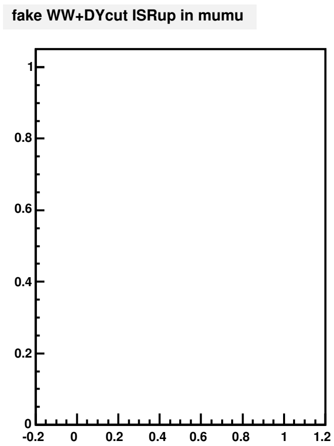
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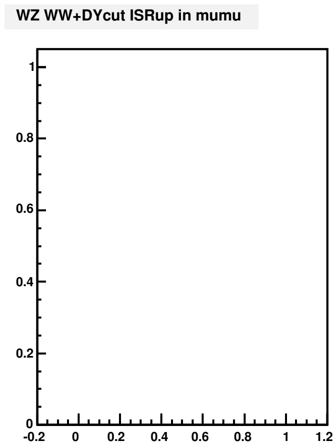
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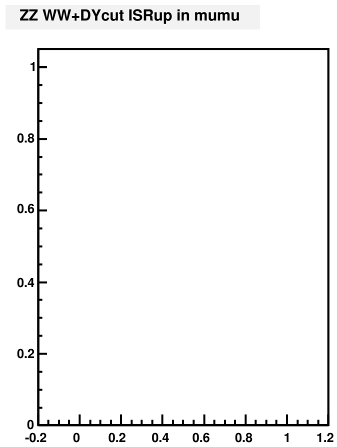
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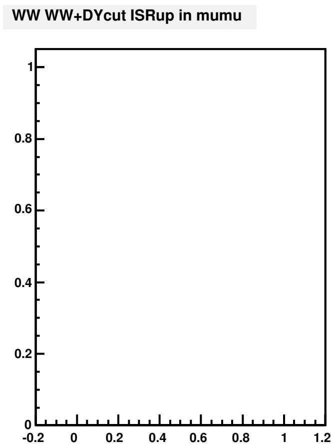
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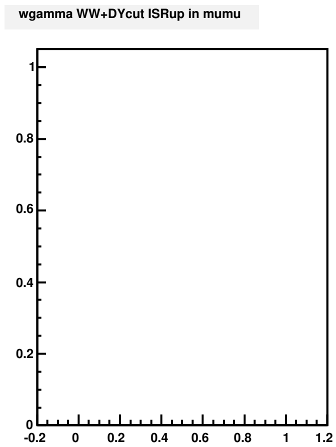
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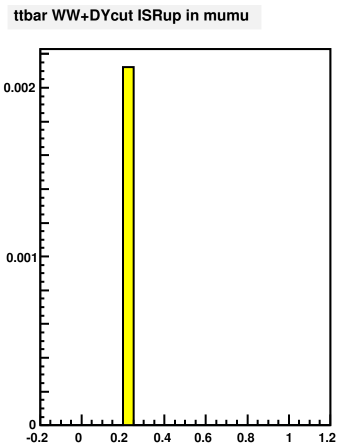
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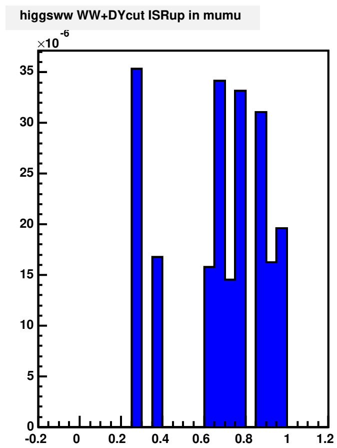
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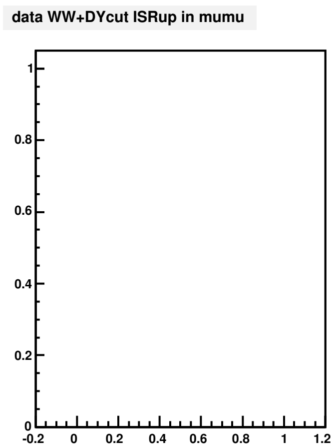
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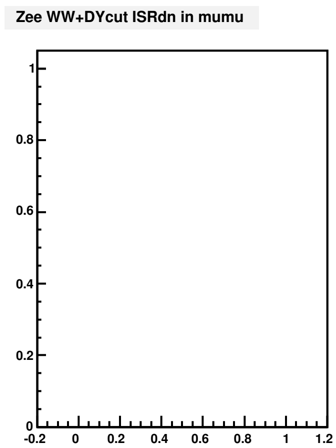
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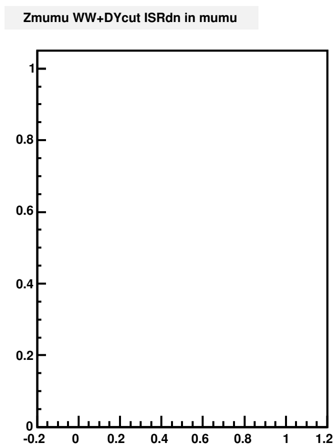
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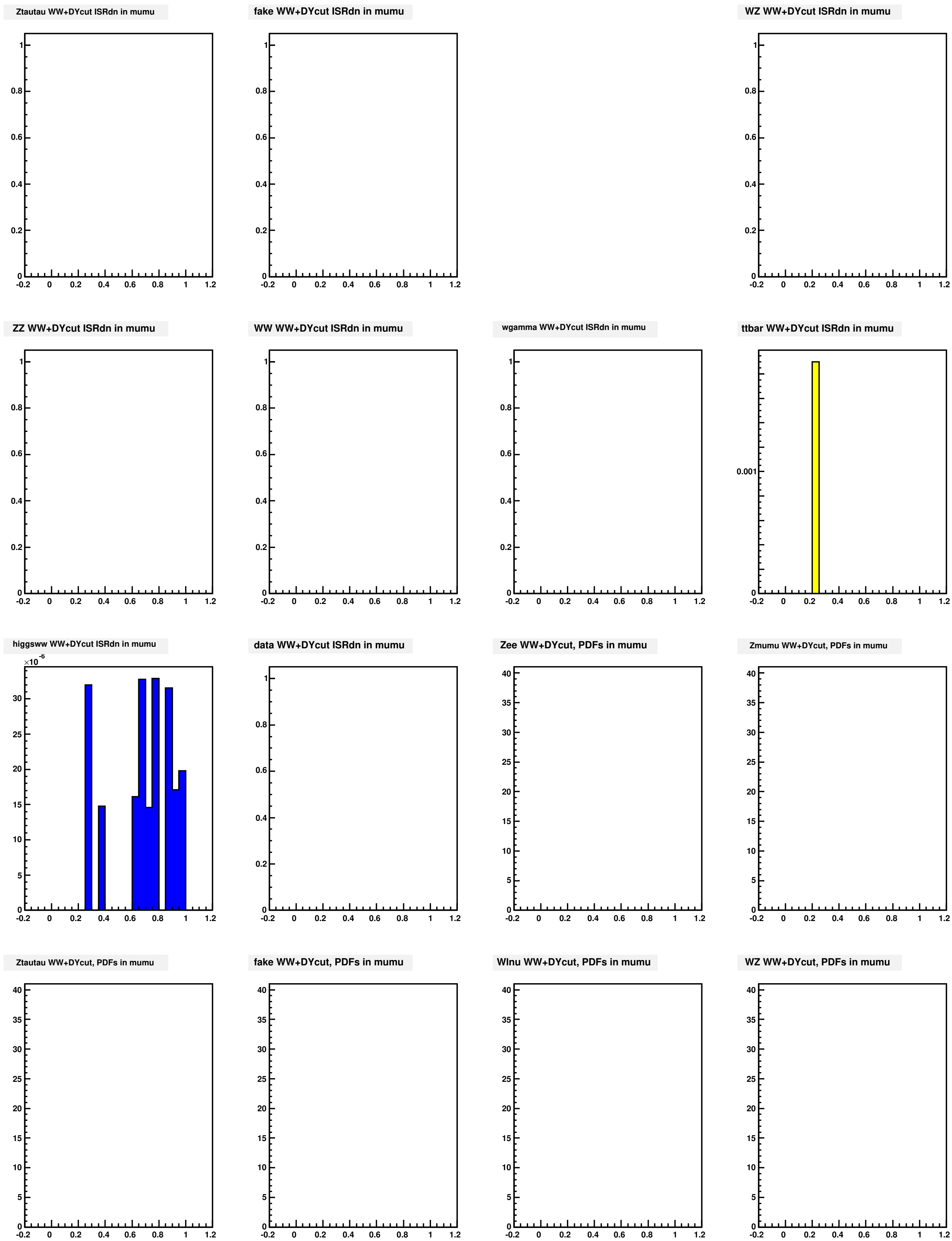

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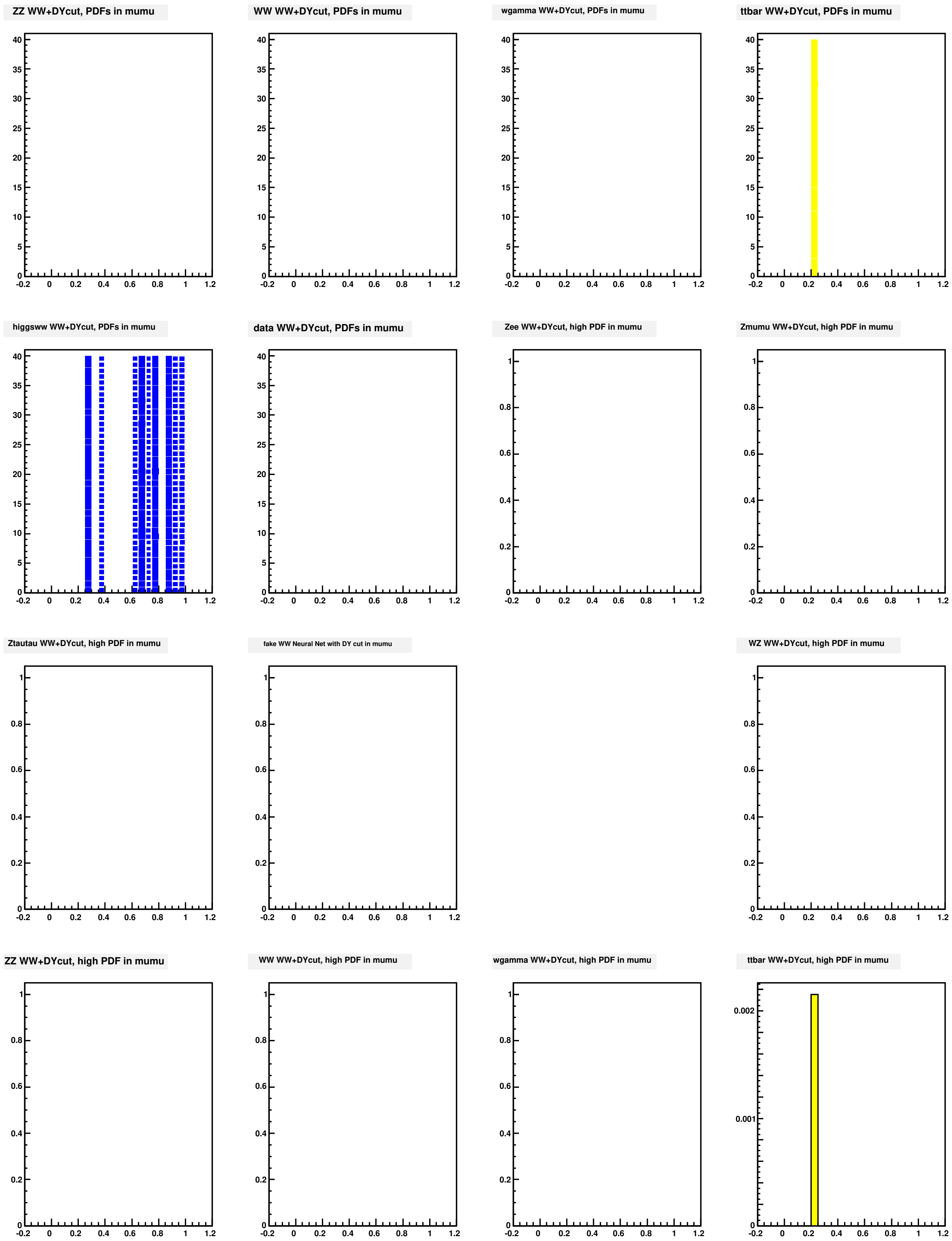
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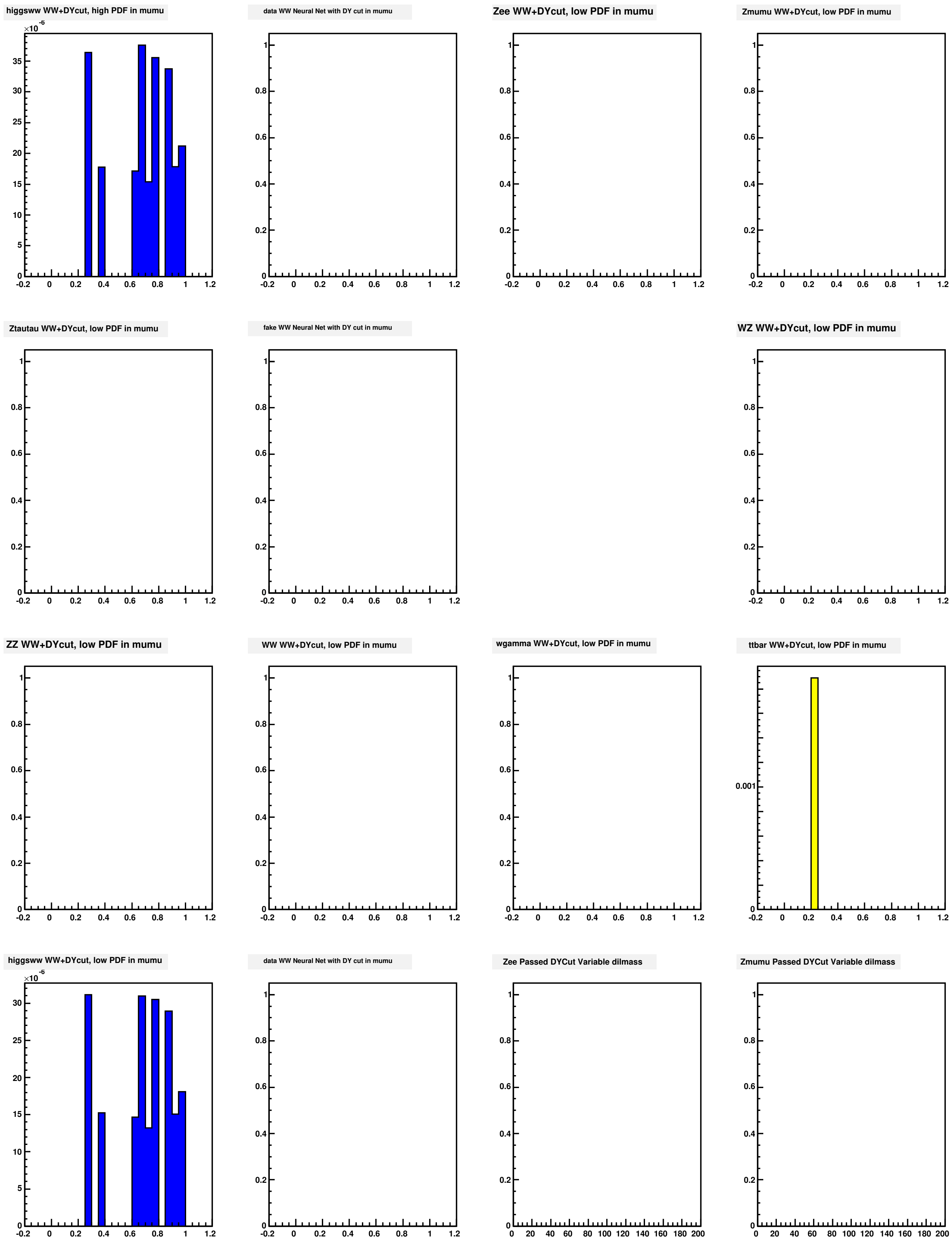
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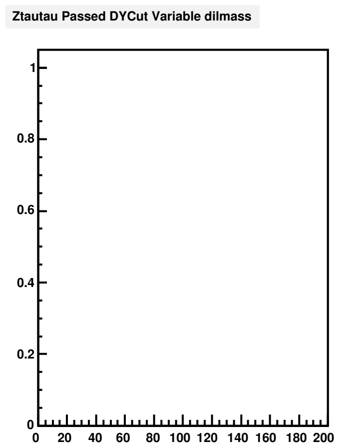
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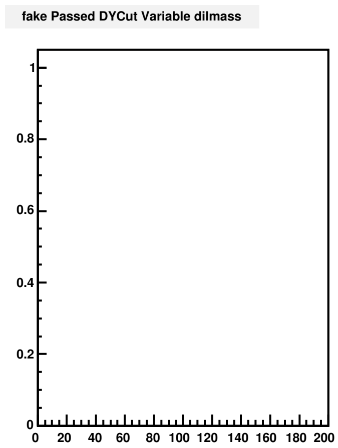
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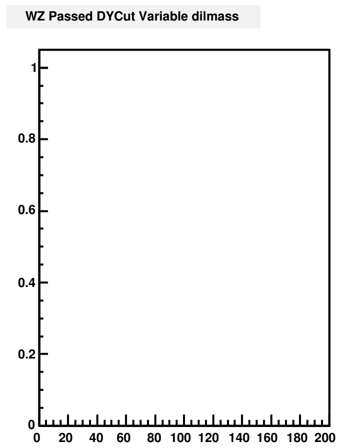
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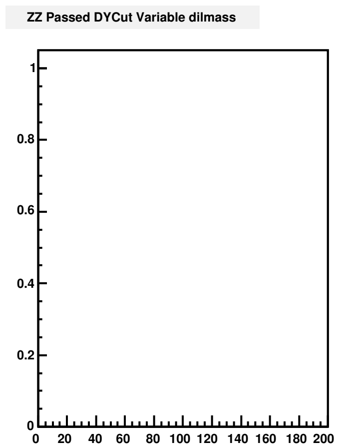
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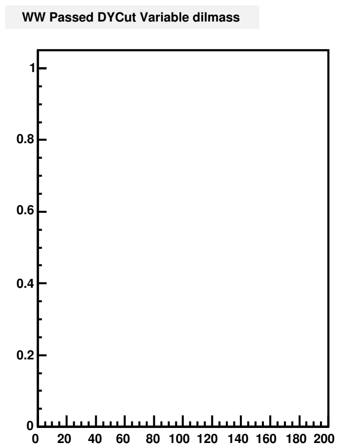
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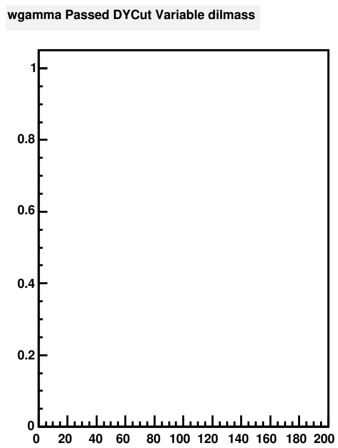
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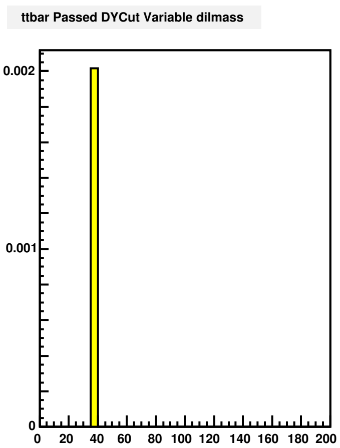
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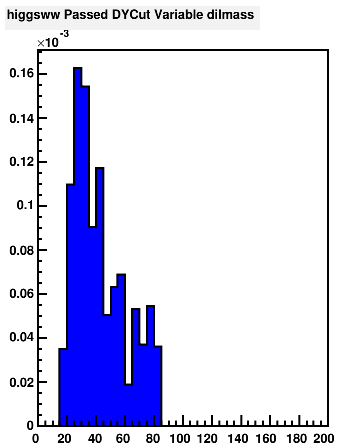
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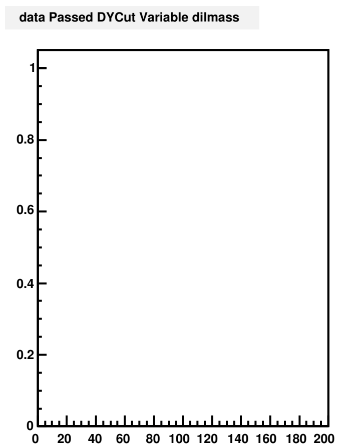
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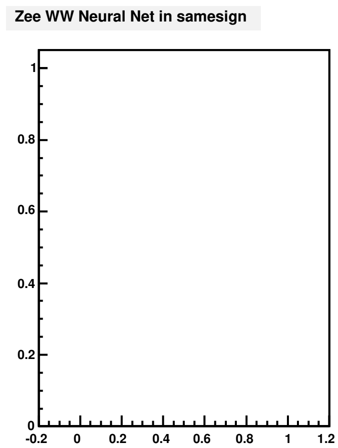
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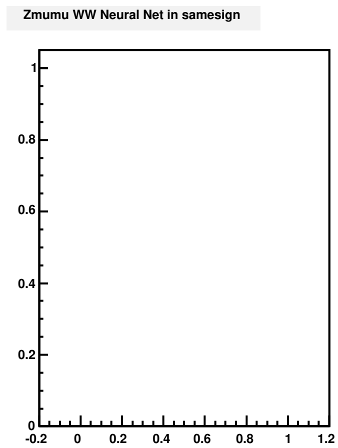
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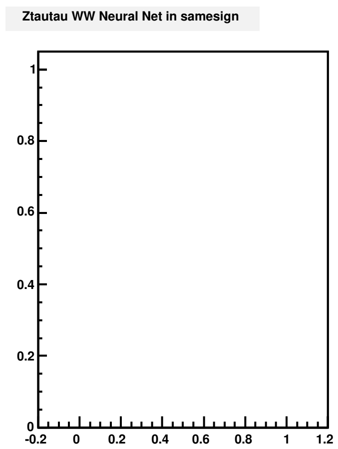
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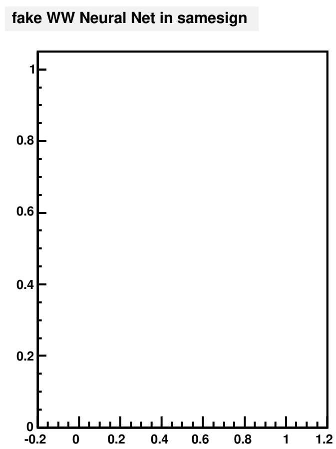
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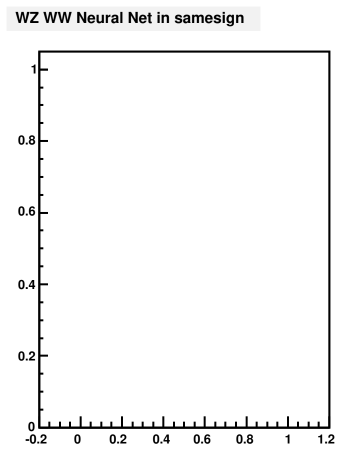
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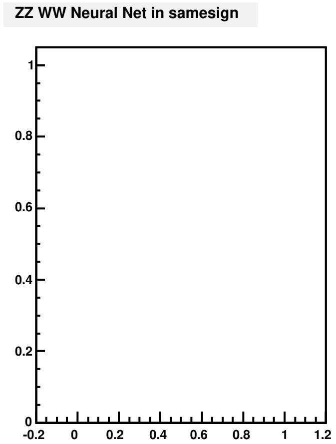
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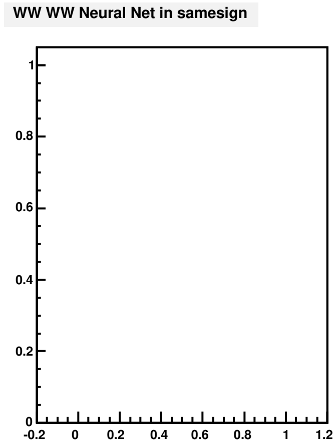
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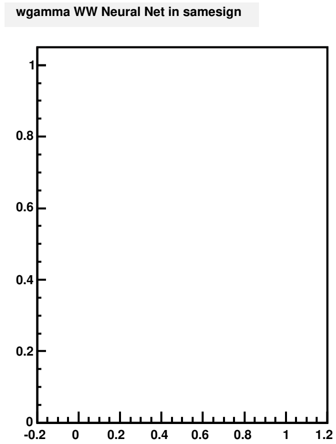
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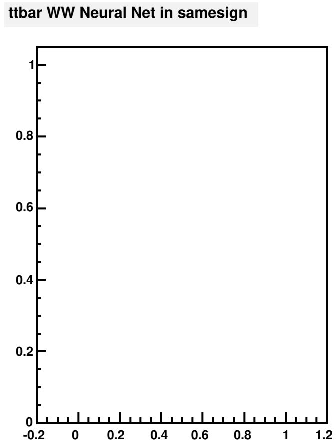
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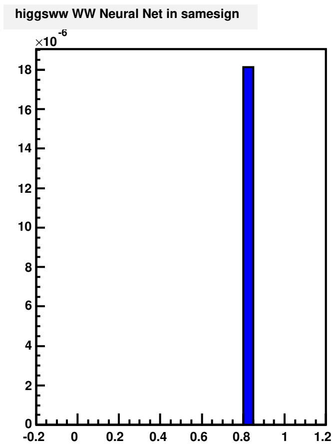
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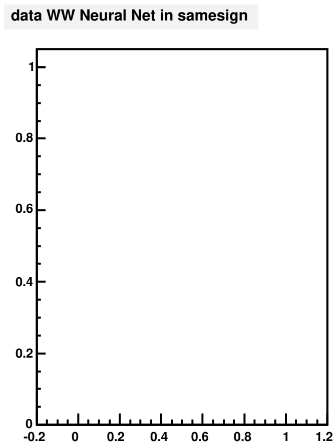
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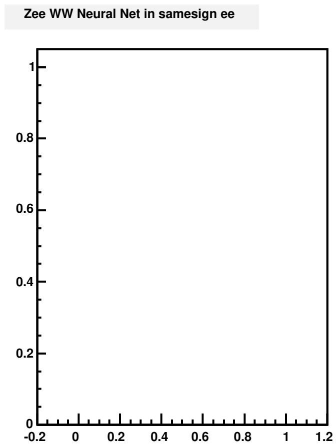
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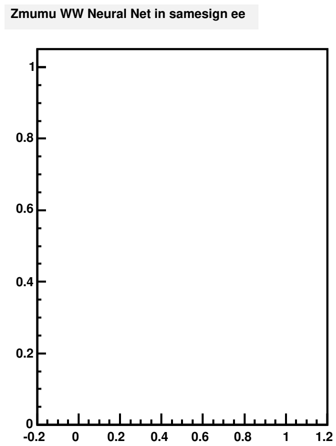
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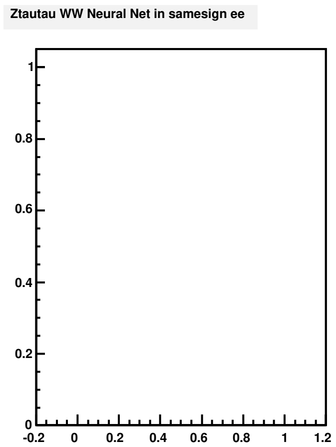
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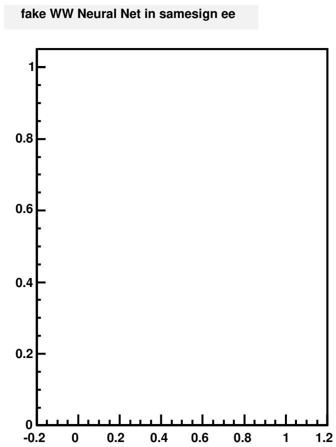
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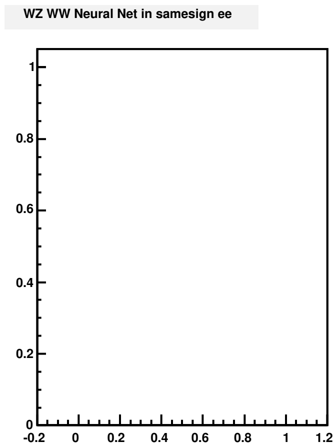
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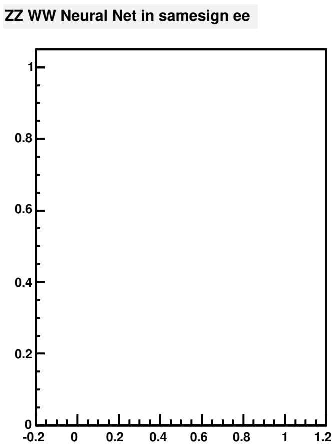
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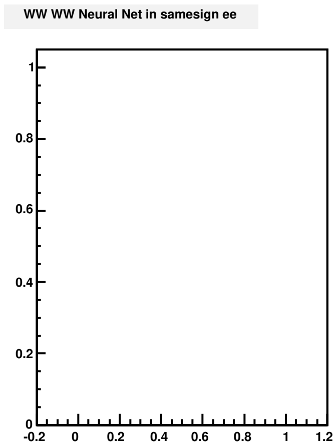
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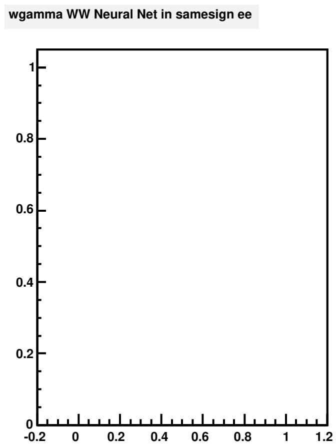
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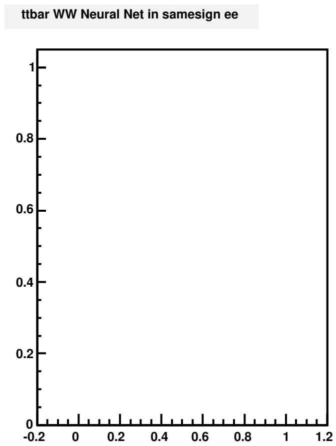
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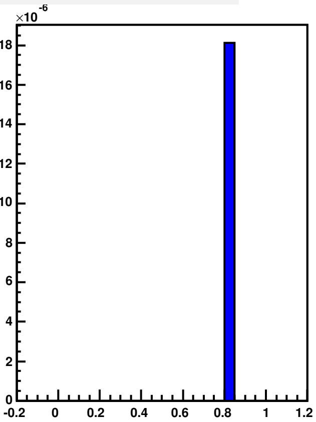

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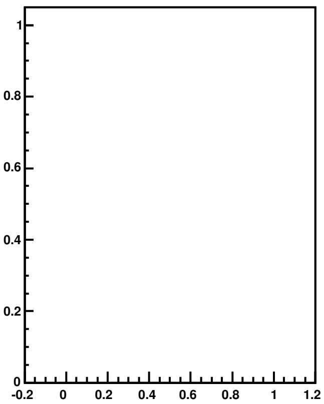

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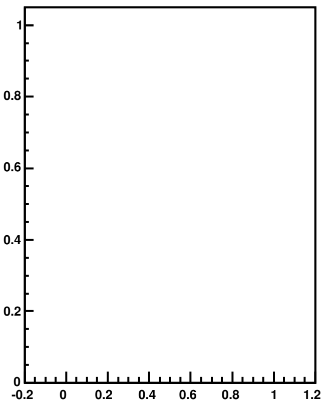

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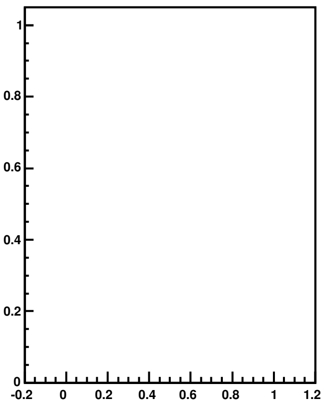

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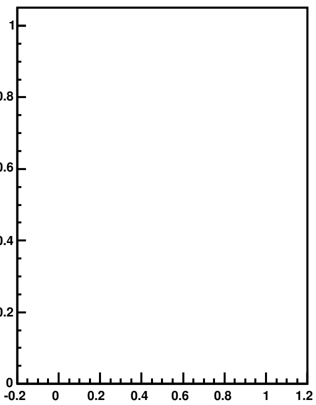

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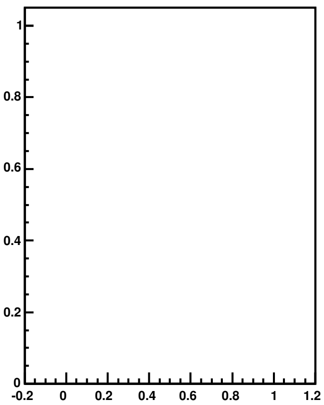

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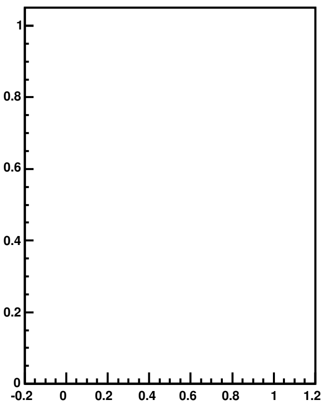

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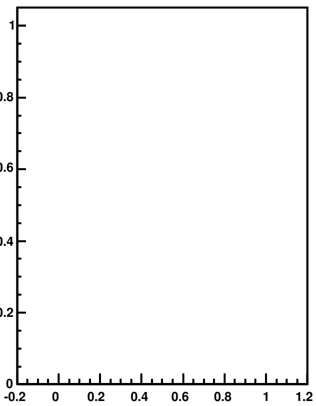

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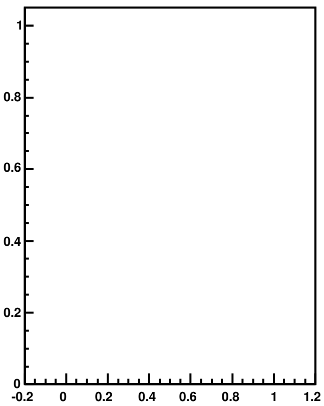

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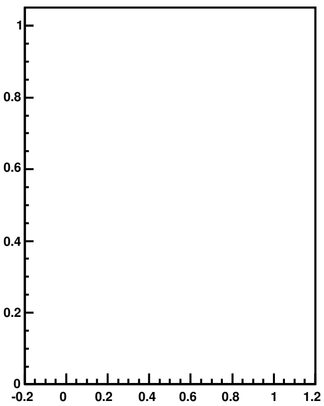

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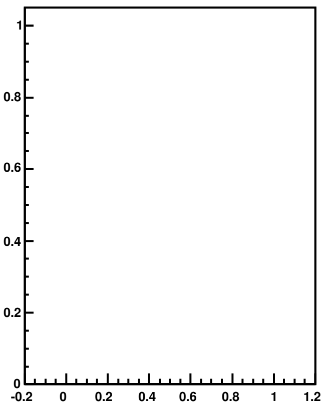

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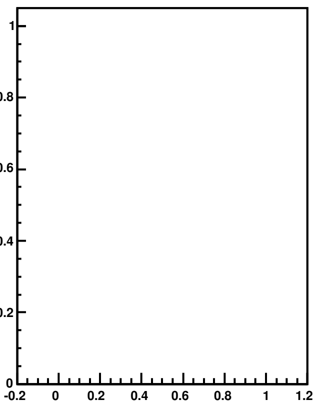

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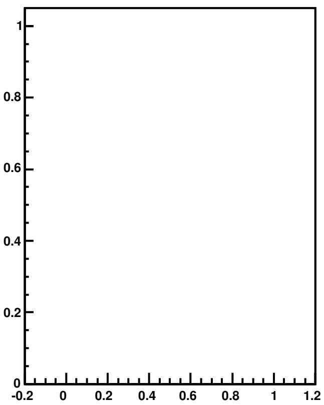

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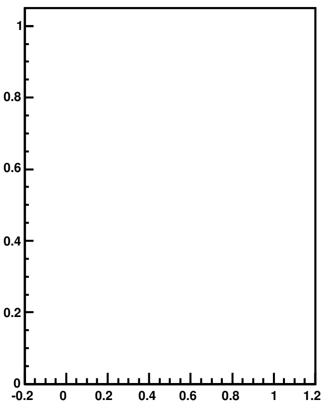

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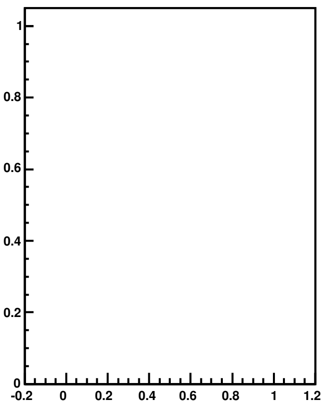

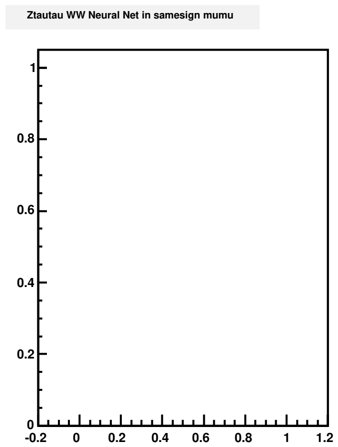
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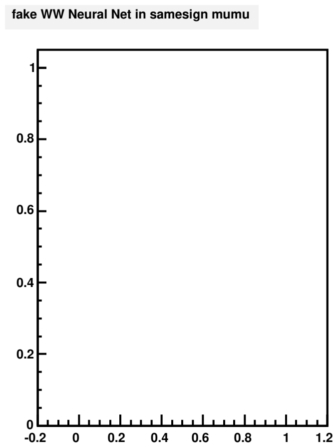
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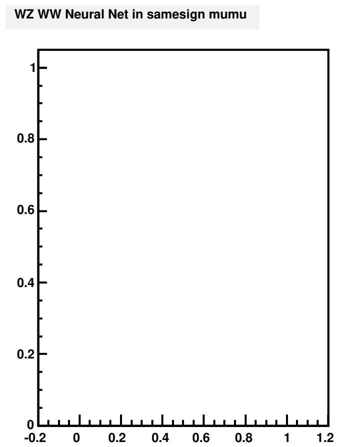
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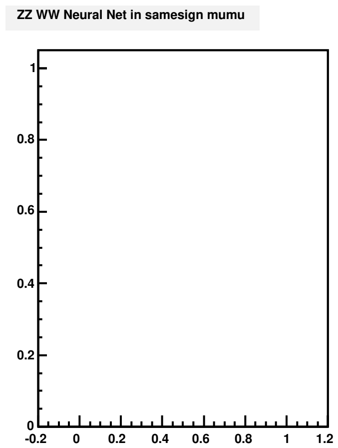
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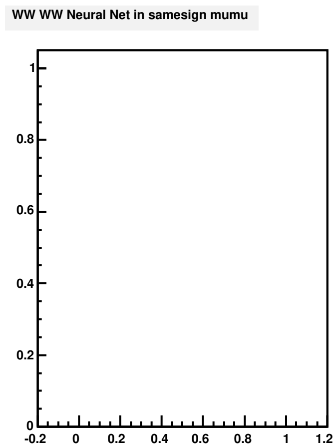
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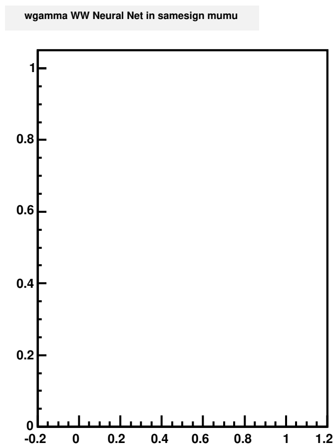
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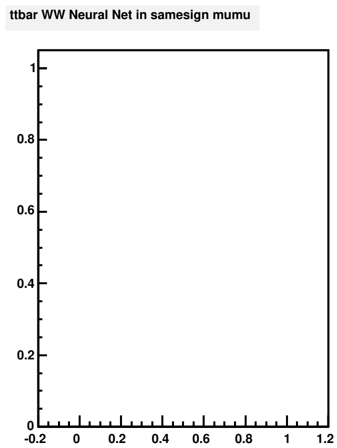
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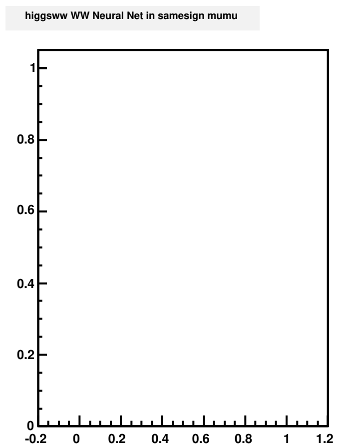
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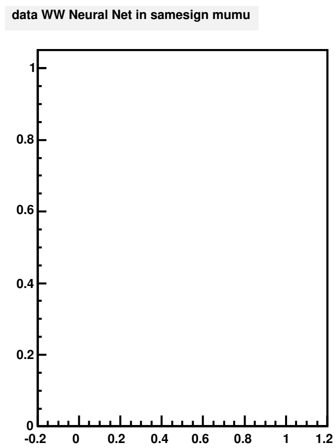
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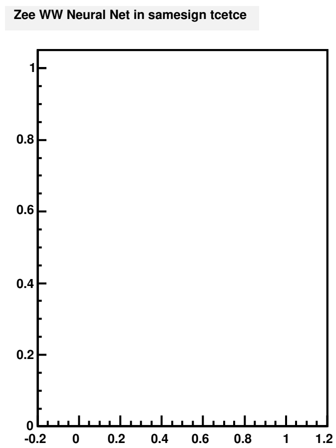
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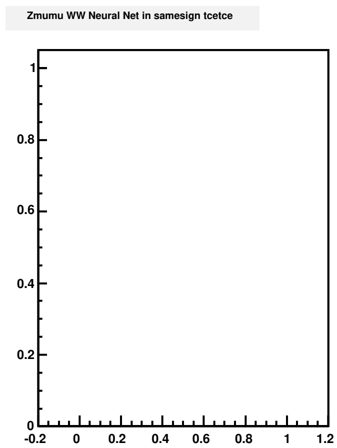
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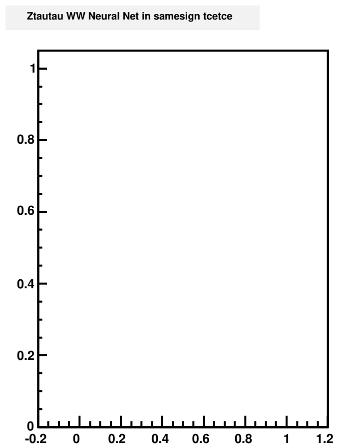
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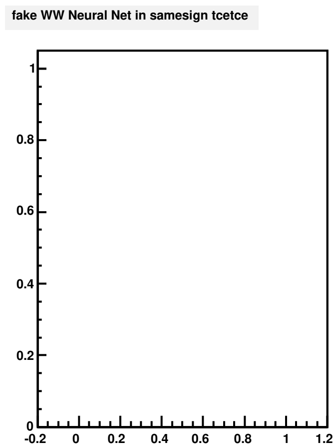
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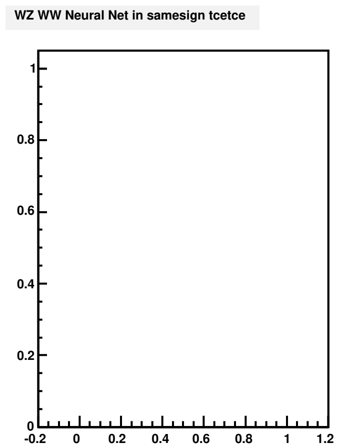
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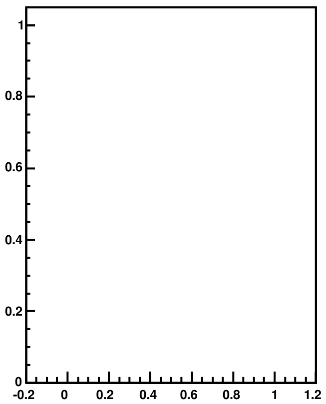


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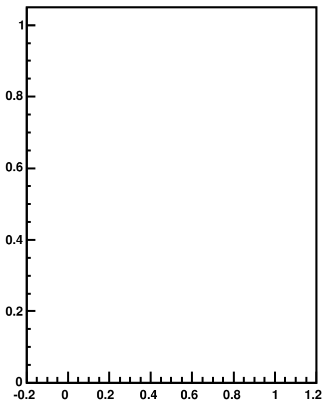


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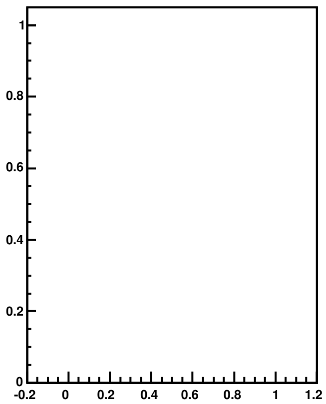


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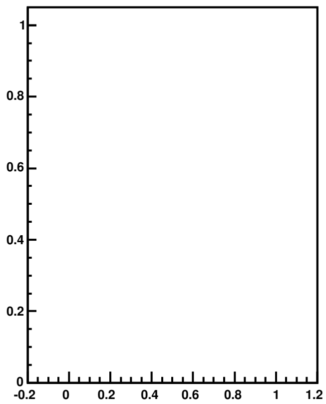


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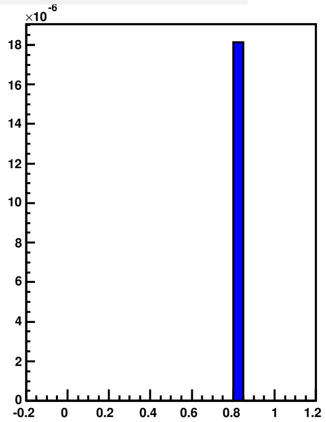


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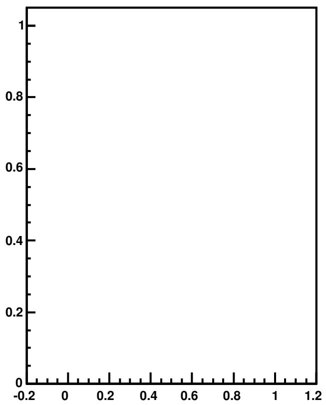


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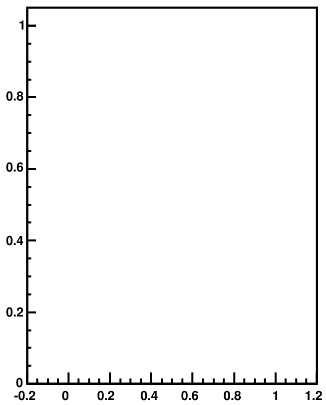


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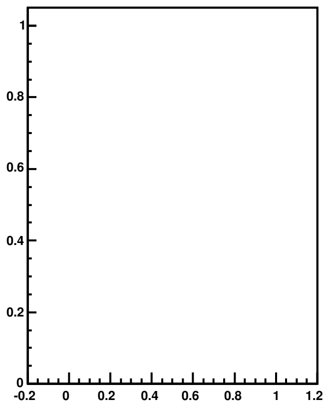


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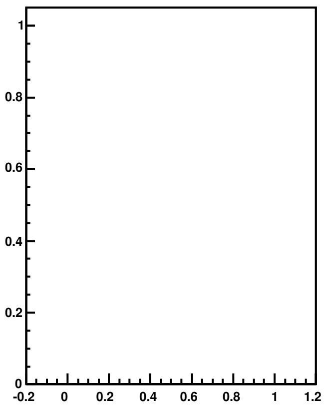


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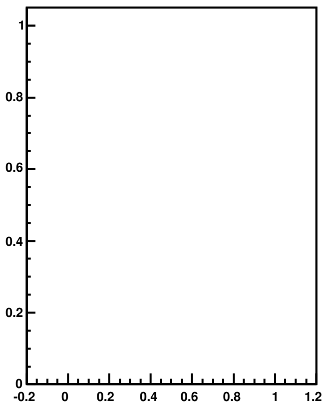


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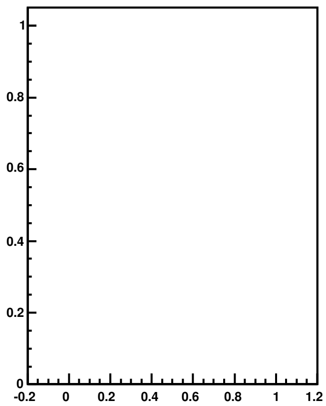


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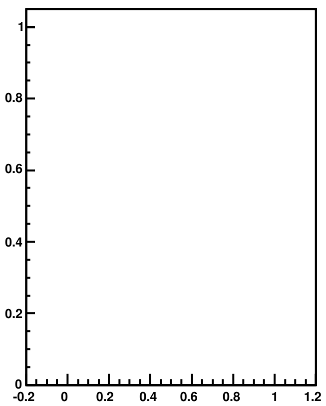


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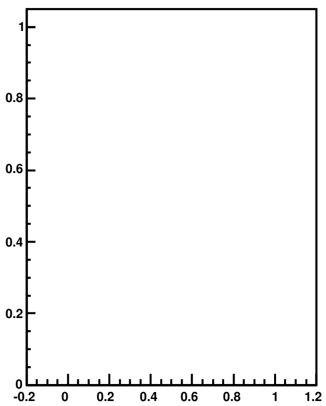


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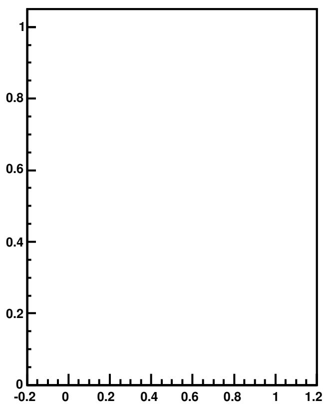


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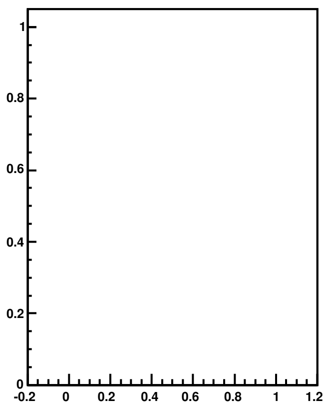

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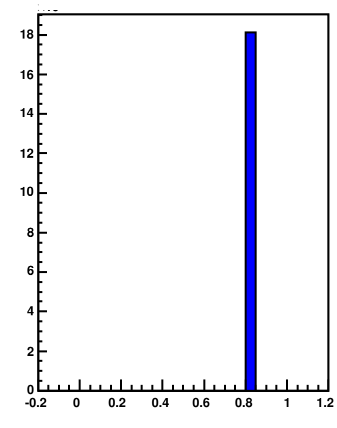

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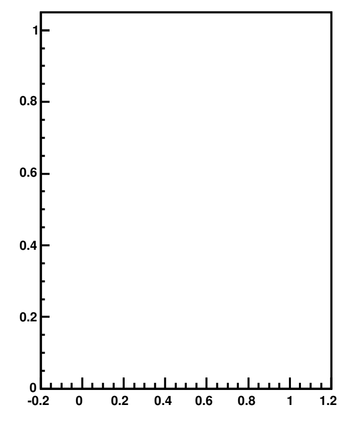

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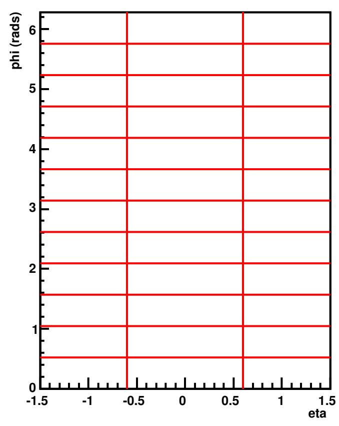


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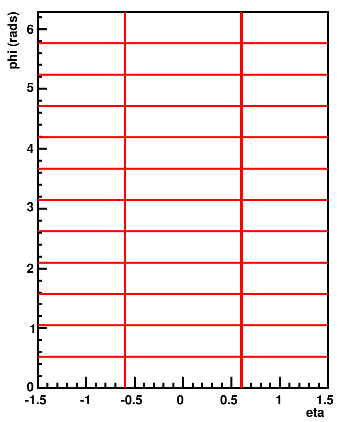


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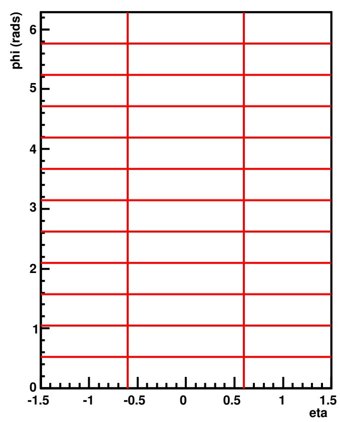


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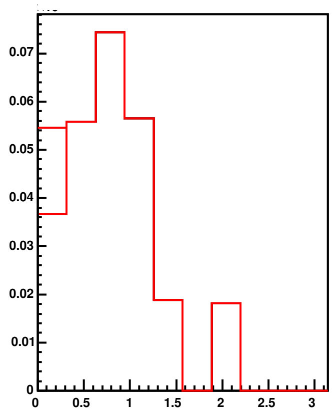

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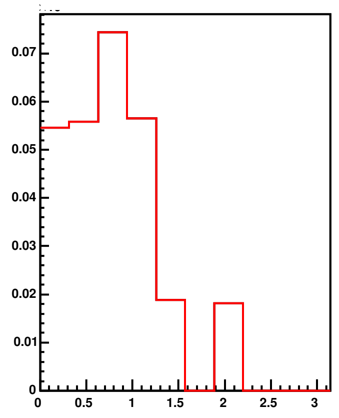

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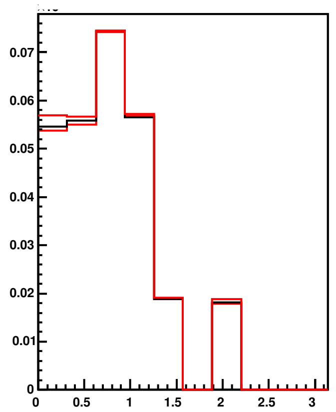

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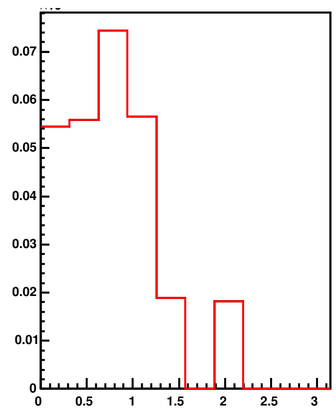

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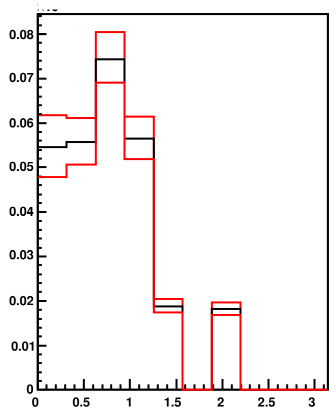
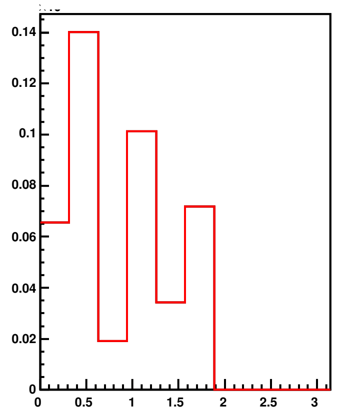


Sigemu2 dphi of electron and muon, high JES



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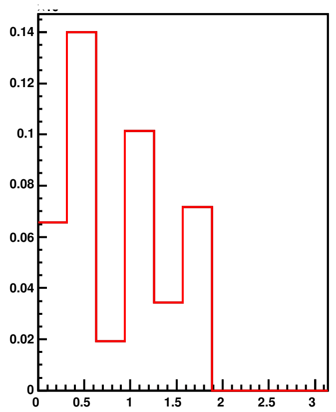

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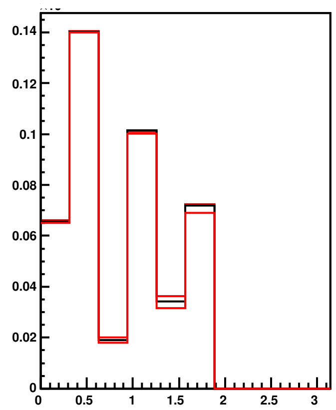

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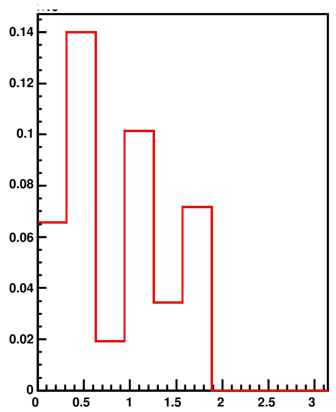

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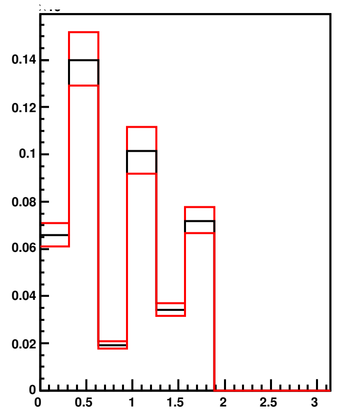

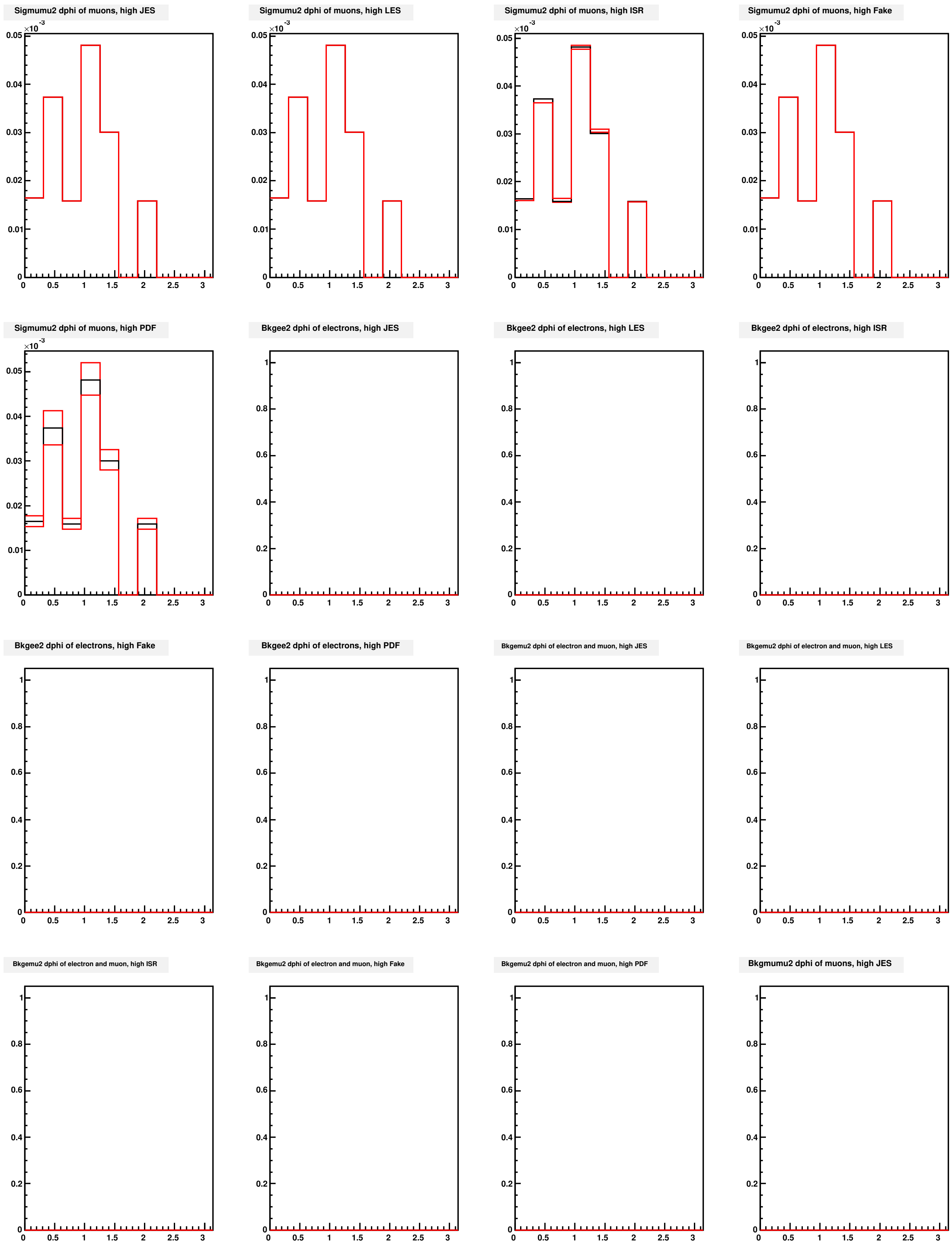
Sigmumu2 dphi of muons, high JES
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Bkgee2 dphi of electrons, high JES
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Bkgee2 dphi of electrons, high PDF
Bkgemu2 dphi of electron and muon, high JES
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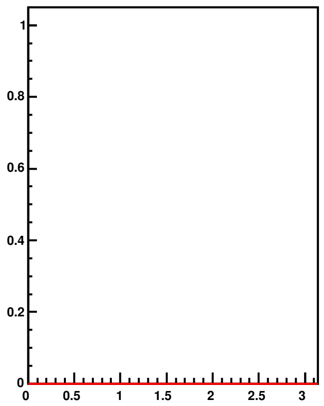

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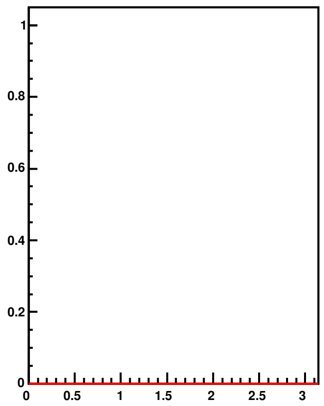

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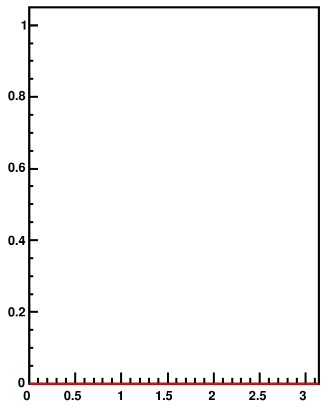
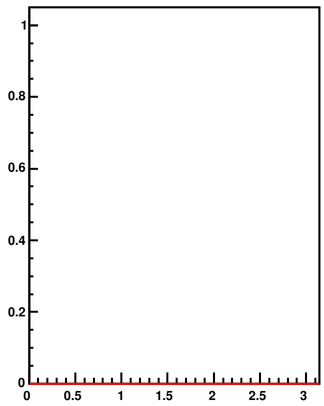
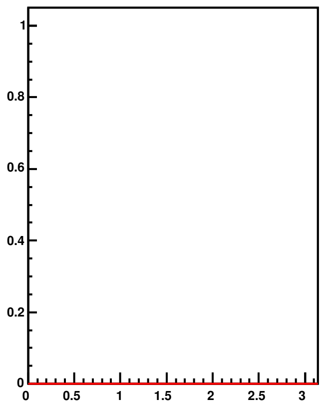


Bkgmumu2 dphi of muons, high PDF



WWee2 dphi of electrons, high JES



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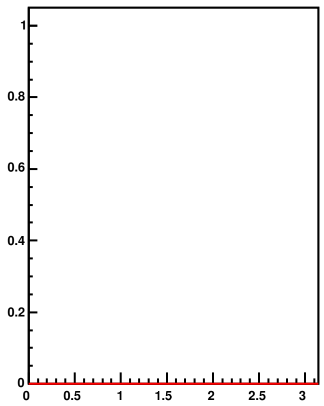
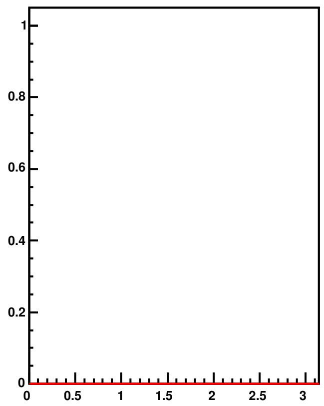
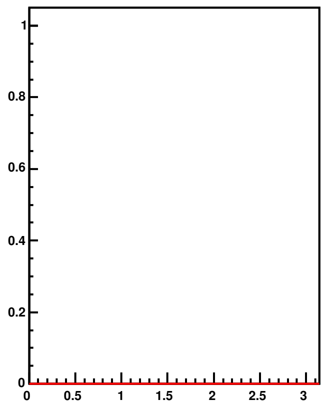


WWee2 dphi of electrons, high ISR



WWee2 dphi of electrons, high Fake



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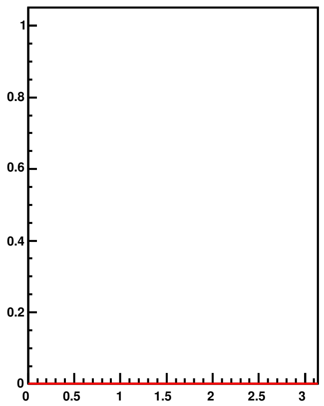
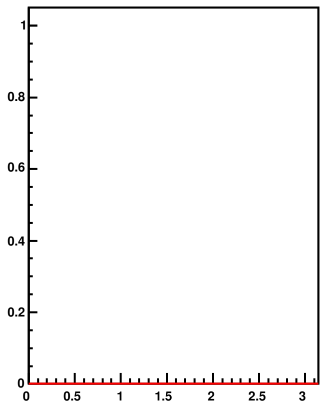


WWemu2 dphi of electron and muon, high JES



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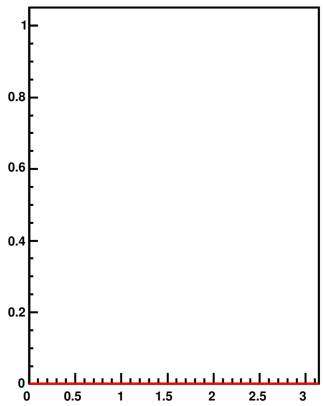

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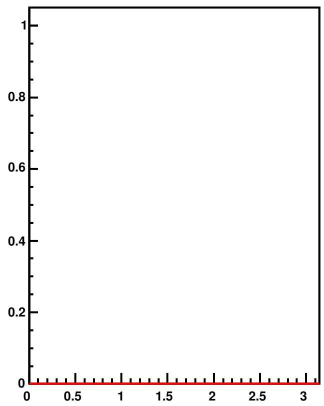

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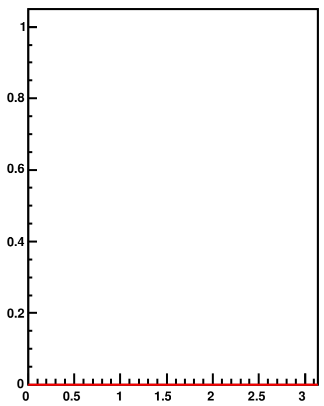

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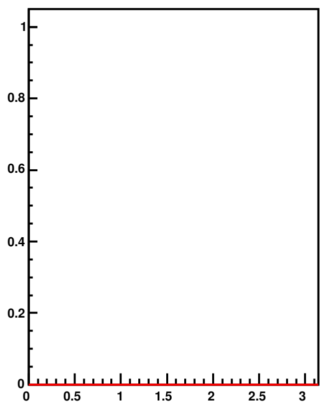

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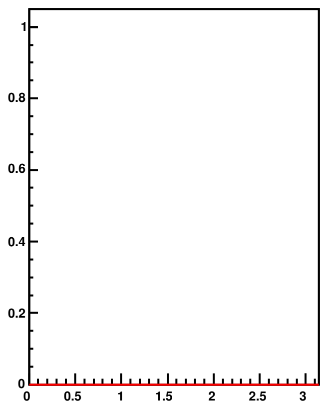

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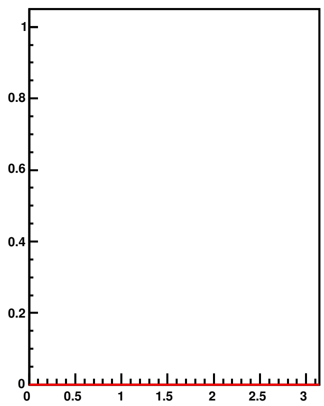

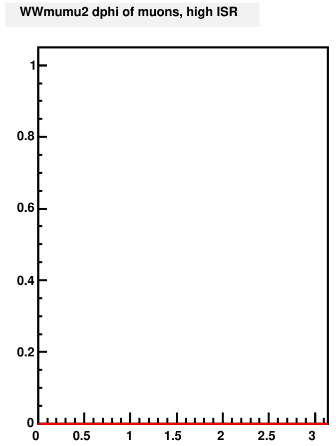
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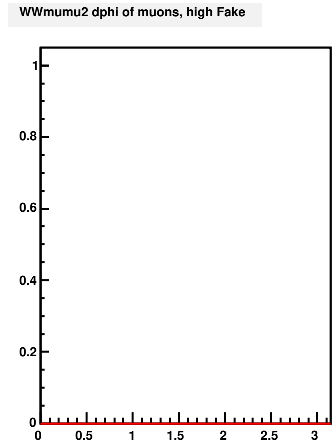
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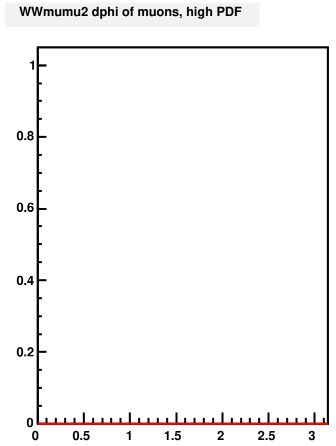
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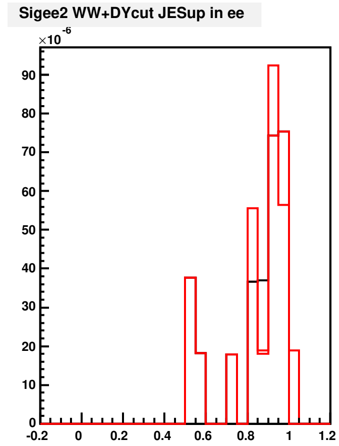
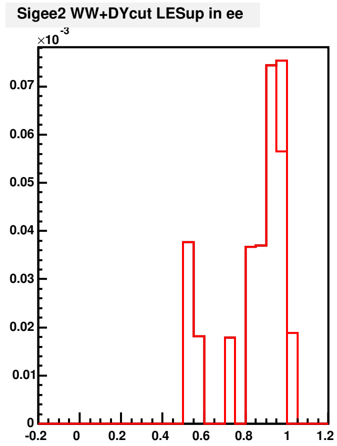

Sigee2 WW+DYcut JESup in ee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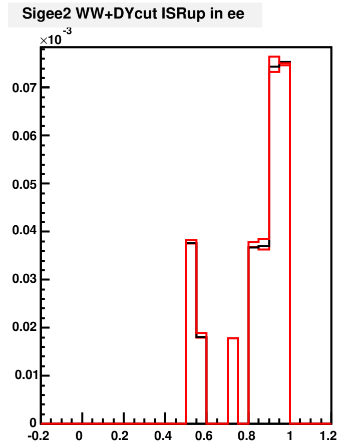
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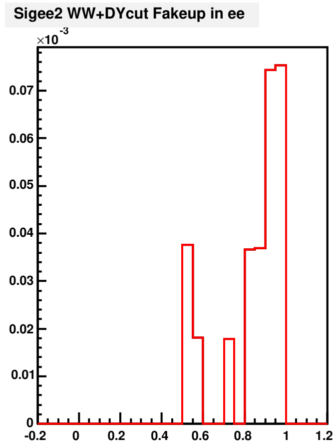
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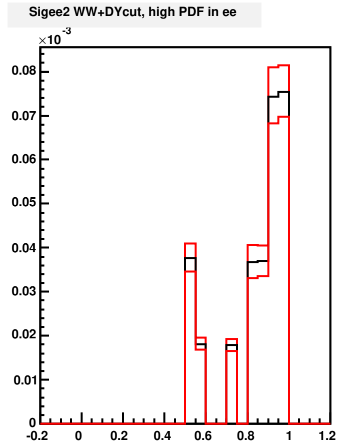
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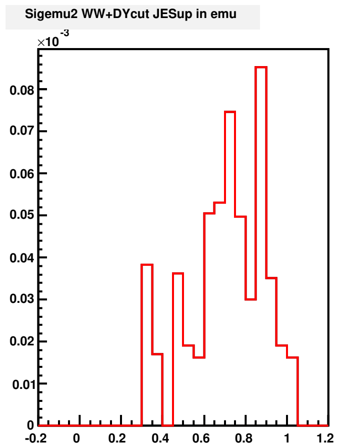
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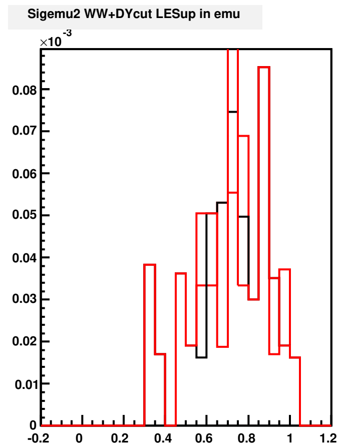
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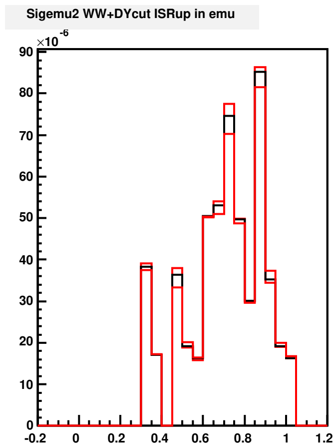
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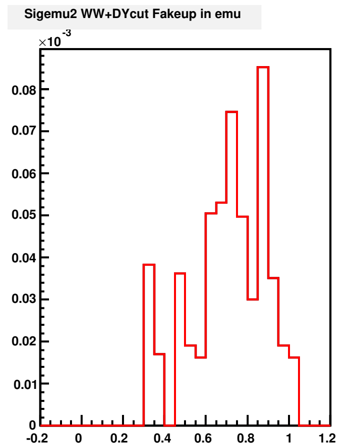
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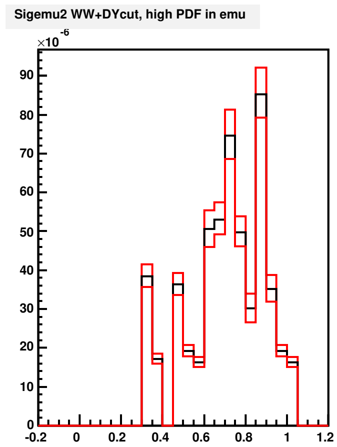
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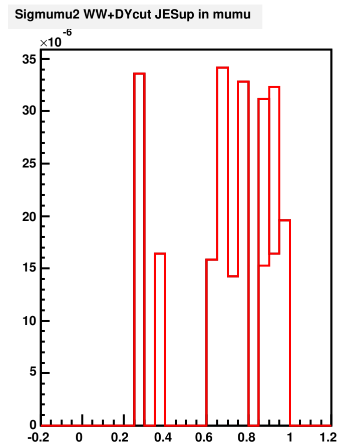
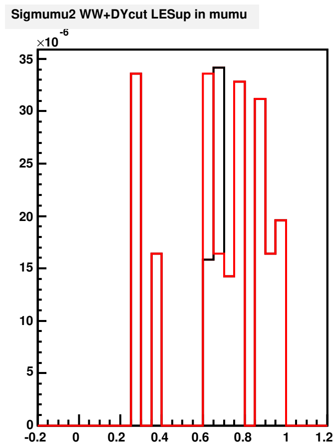

Sigmumu2 WW+DYcut JESup in mumu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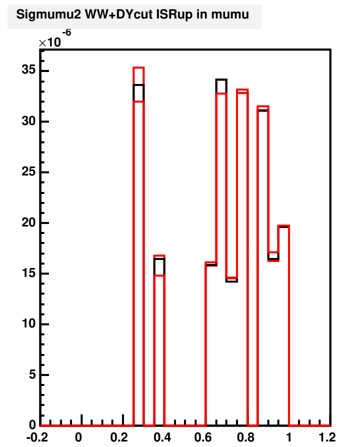
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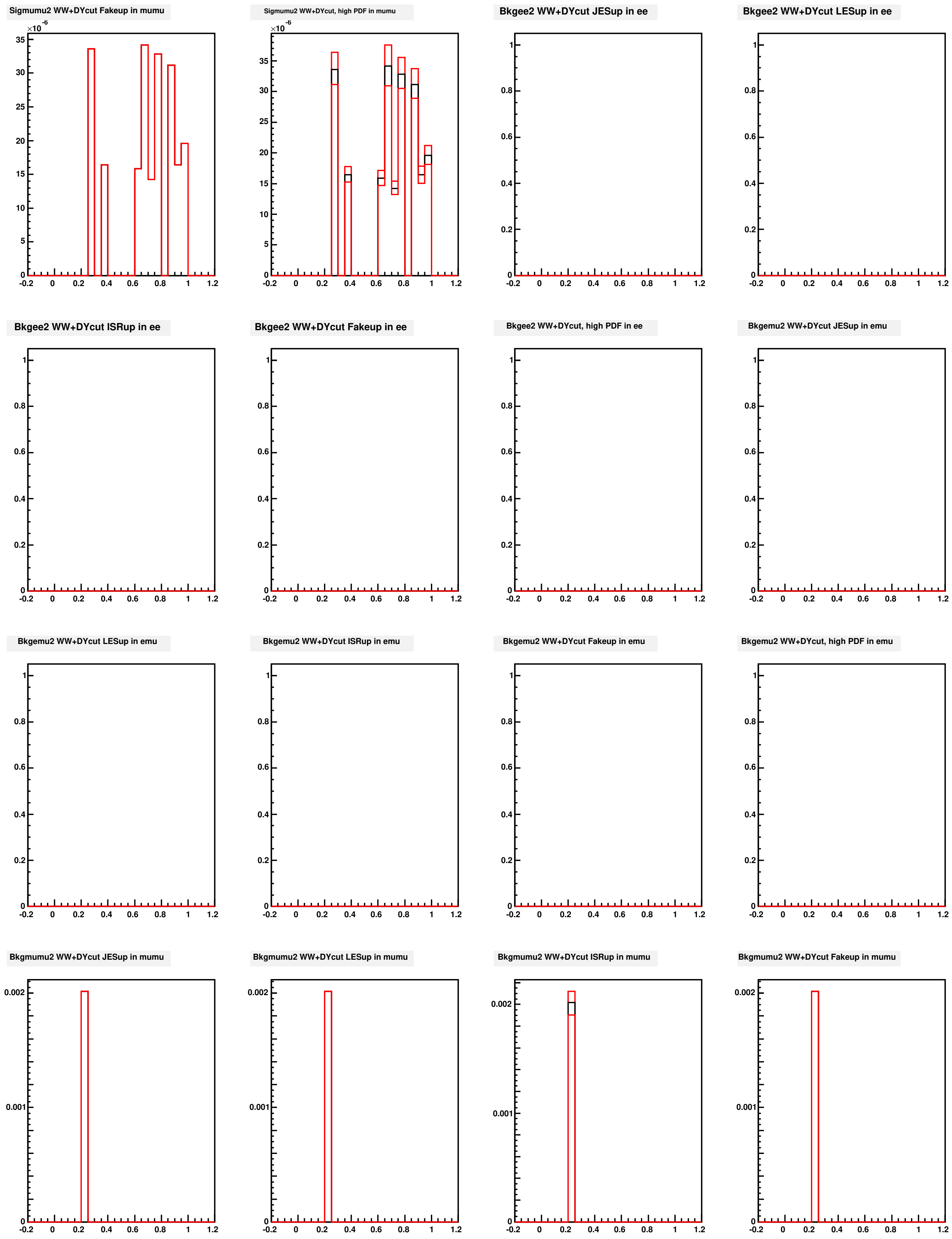

Sigmumu2 WW+DYcut Fakeup in mumu
Sigmumu2 WW+DYcut, high PDF in mumu
Bkgee2 WW+DYcut JESup in ee
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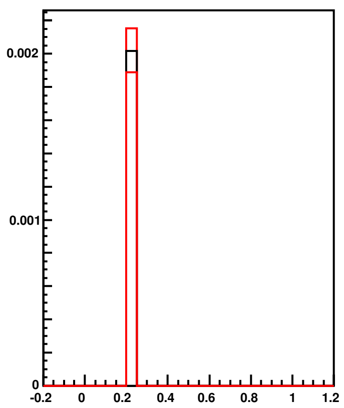


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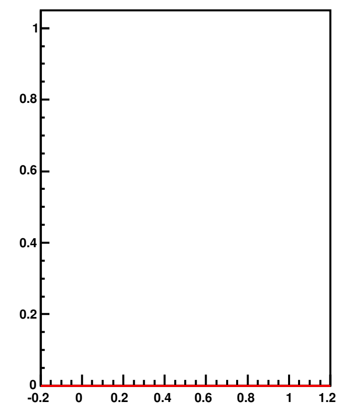


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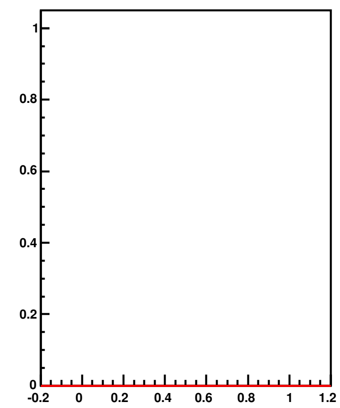


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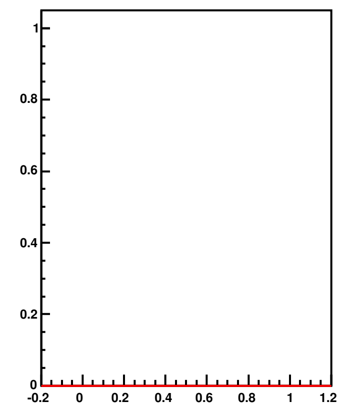


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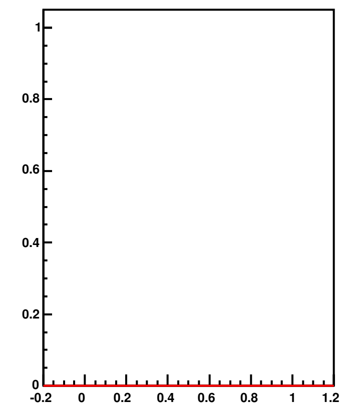


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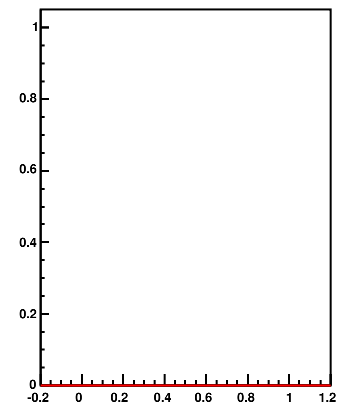
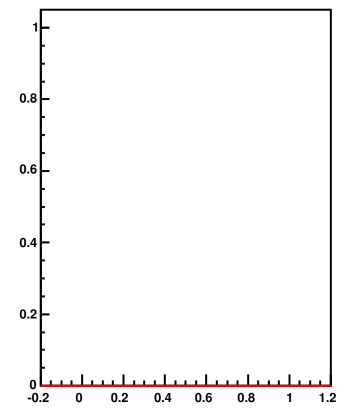



WWemu2 WW+DYcut JESup in emu

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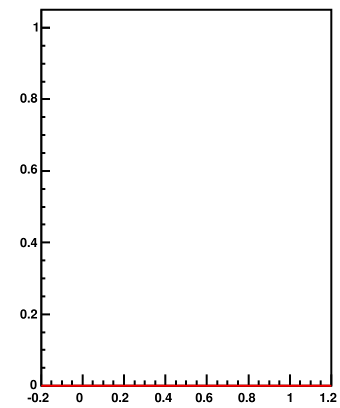


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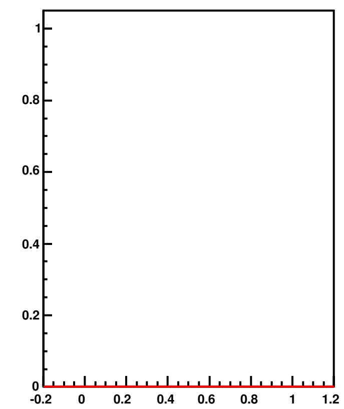


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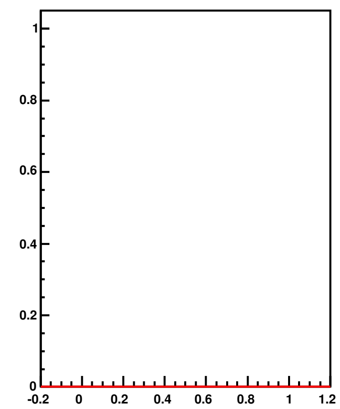


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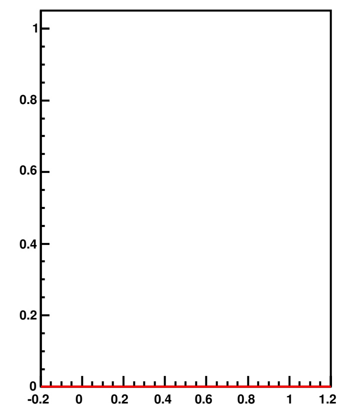


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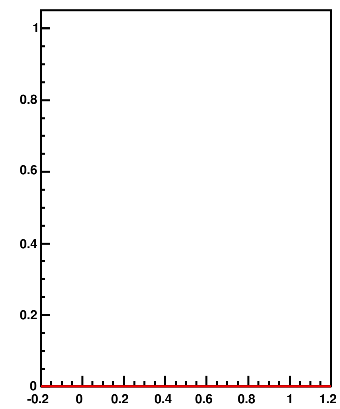


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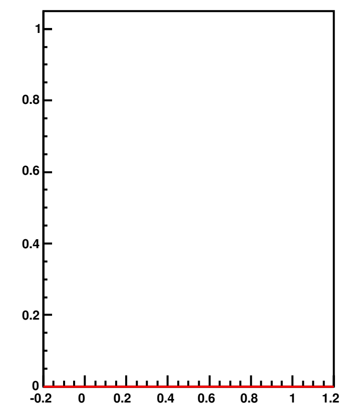


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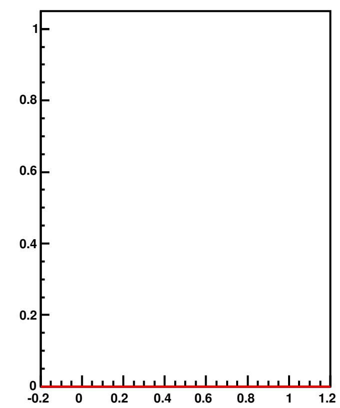


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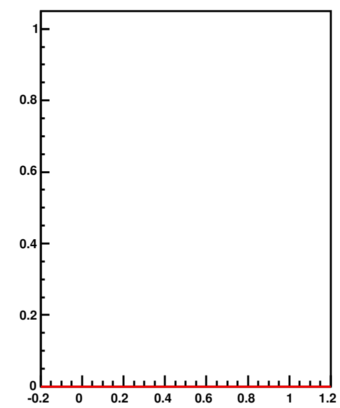


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