HERA2 η_{max}

*Rapgap signal = 0.74*no-gluon direct + 0.26*resolve*
5<Et<15
diff cuts: $\eta_{max}<2.8$, Xp<0.03

black dots – data, no diff. cuts;

red – Rapgap signal, no diff. cuts, approximately normalized to fit the diffractive region of the η_{max} distribution;

blue – red Rapgap signal + Pythia background, no diff. cuts, Pythia is normalized to the black data minus red Rapgap;

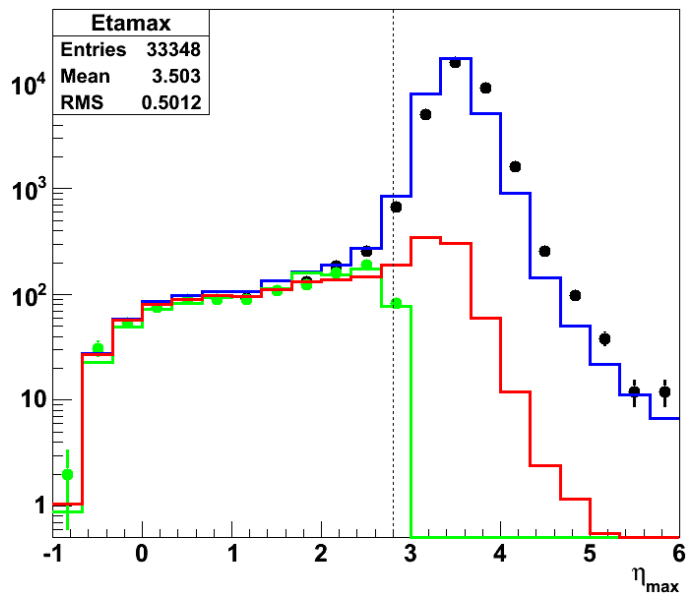green dots – data (signal + background), with FPC cut;

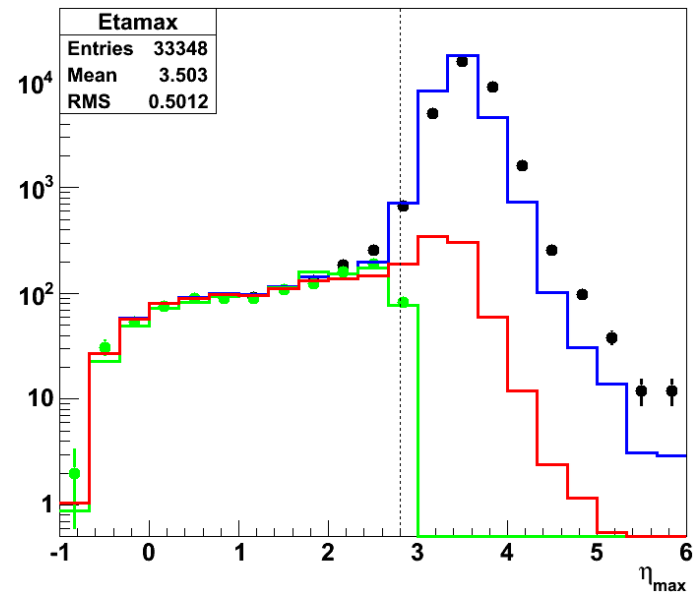green – Rapgap signal with FPC cut normalized to the data with FPC cut.

dotted vertical line – $\eta_{max} < 2.8$ cut

1

Bg – Pythia php signal

Bg – Pythia giant dijet

inclusive

γ + jet