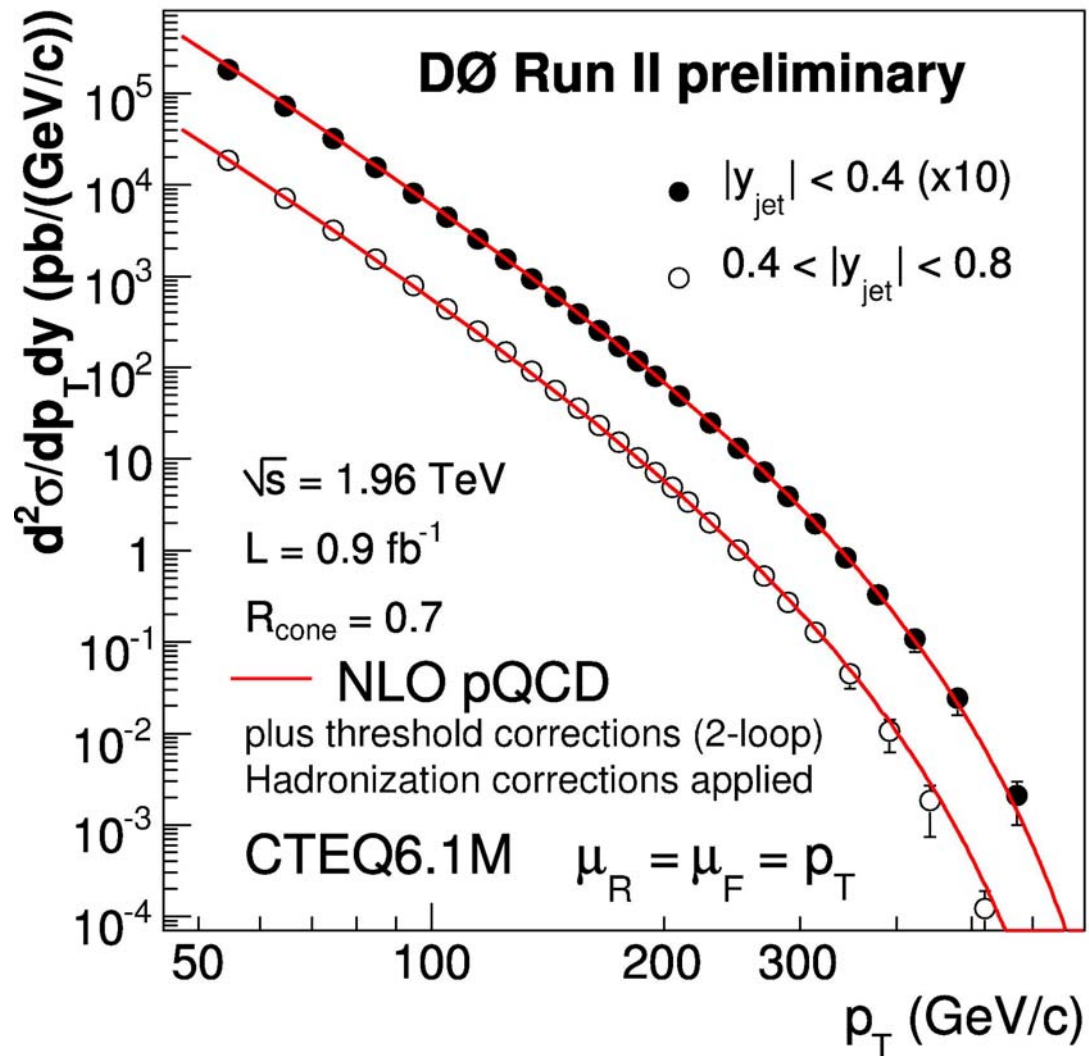
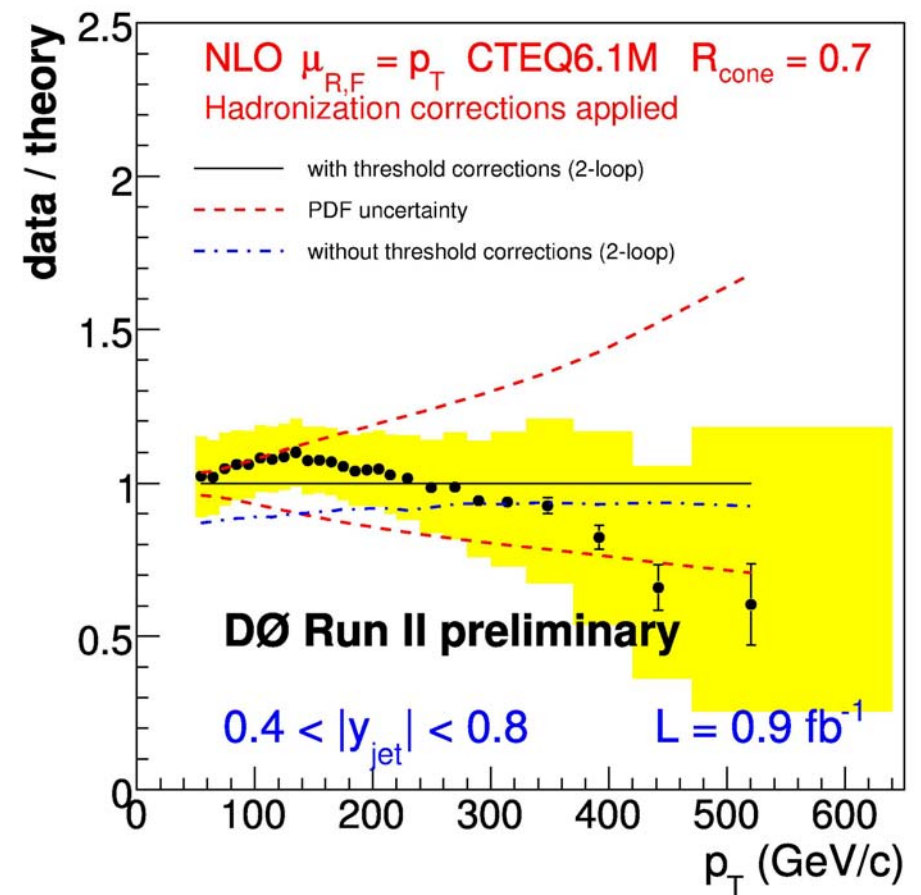
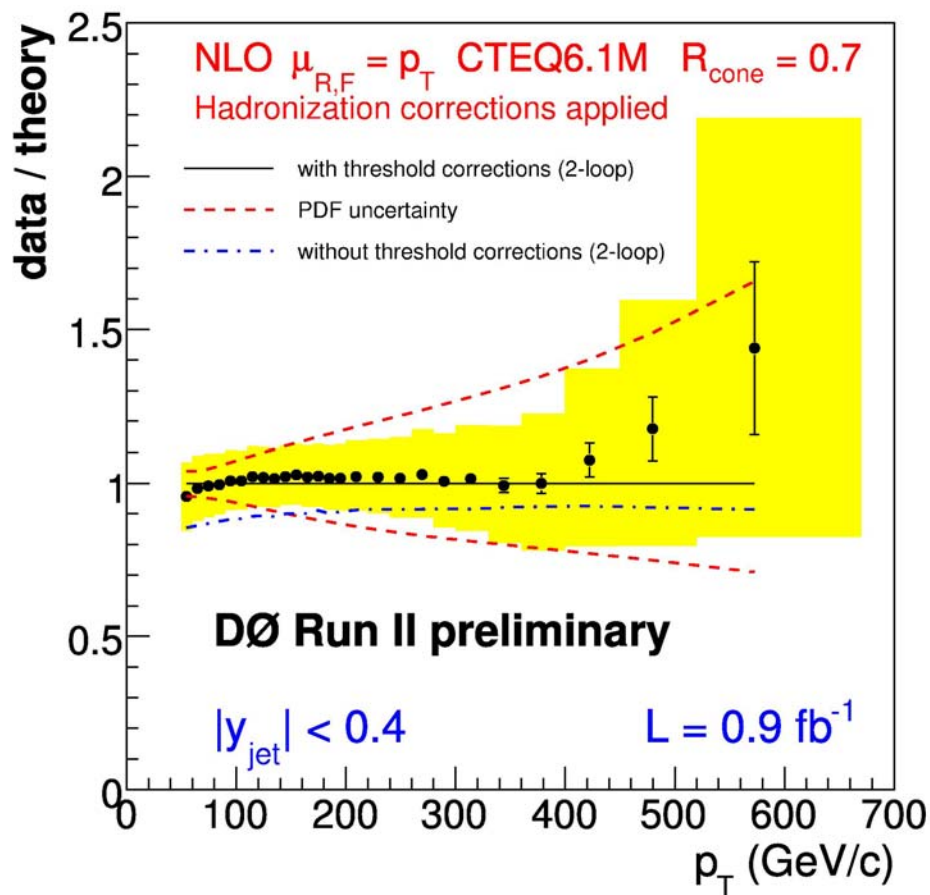


# D0 future results

Heidi Schellman



# Inclusive jets as of March 07



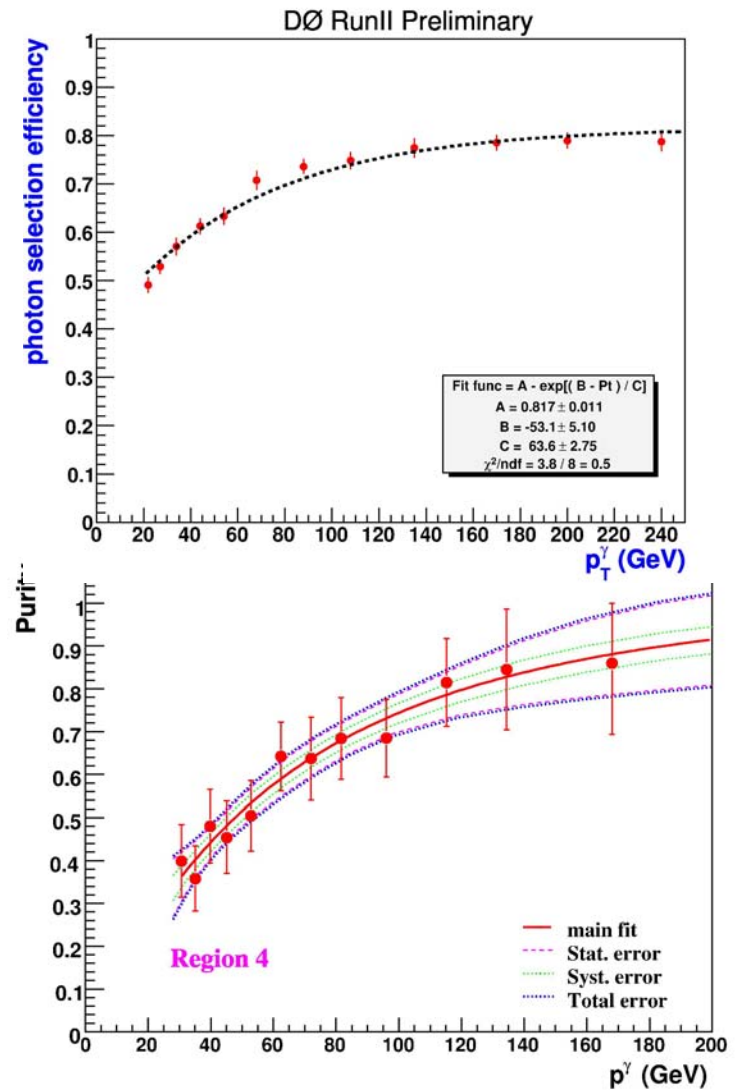
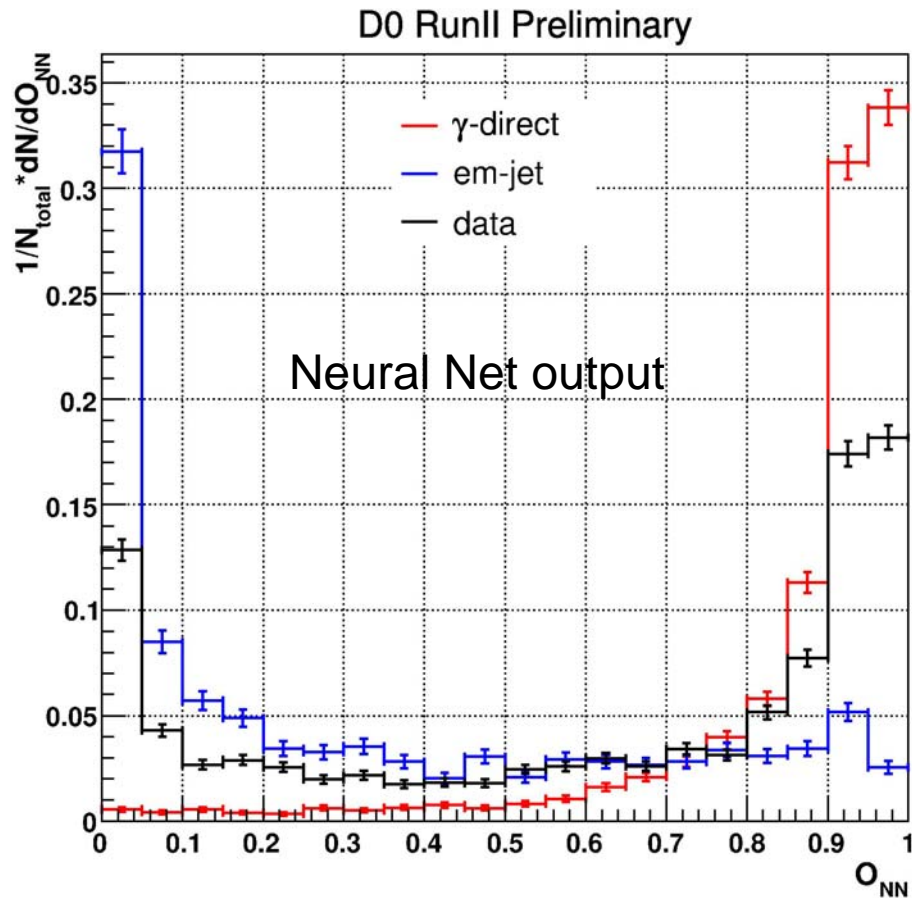
# Upcoming

- Energy scale for  $y < 3.5$  for gamma+jet events.
- $P_T$  ranges up to 600 GeV in central-most region
- $y < 2.4$  in the final results
- Fractional uncertainties range from 1ish% for central 100 GeV  $p_T$  jets to 4% for very high energy or very high eta to 6-8% at very low energy

# Energy scale is too good!

- Differences between different kinds of jet are  $> 1\%$ .
- Jets in gamma+jet and those in dijet events aren't similar enough!
- Preliminary results indicate shifts of 0.5-1% so maybe not so bad....
- Worst case scenario – PDF  $\rightarrow$  energy scale  $\rightarrow$  PDF

# gamma + jets



# gamma+jet in different regions

DØ RunII Preliminary

