Jets in MC and p13 data

QCD Meeting, July 14, 2003

Alexander Kupčo

Institute of Physics, Academy of Sciences of the Czech Republic
Center for Particle Physics, Prague

Samples

Data

- Sep 3, 2002 - Jan 12, 2003
- p13.05.00 and p13.06.01
- good run selection
- luminosity: $\mathcal{L} = 48\,\text{pb}^{-1}$
- central dijet sample
- jetcorr v04-01-00
- the numbers show the efficiencies of the jetID cuts
  - the red ones are for simple counting the events assuming that all jets are good
  - the blue ones are for the efficiencies coming from the fit

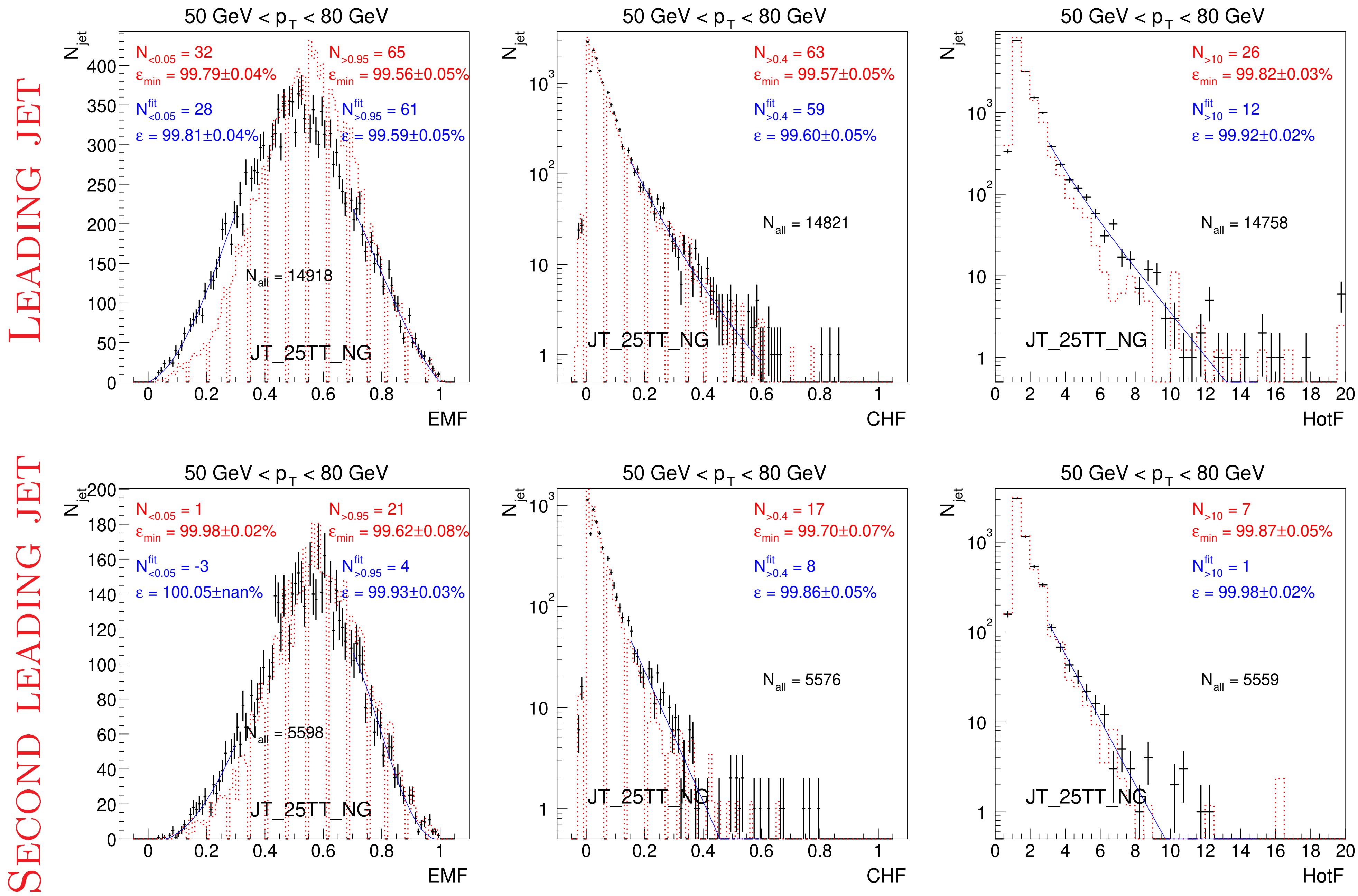
MC

- p13.08.00 release
- PYTHIA QCD samples with different p_T cuts

p_T [GeV]	Request ID	Number of events
20	6008	98 000
40	6003	104 348
80	6006	108 982
160	6005	92 500

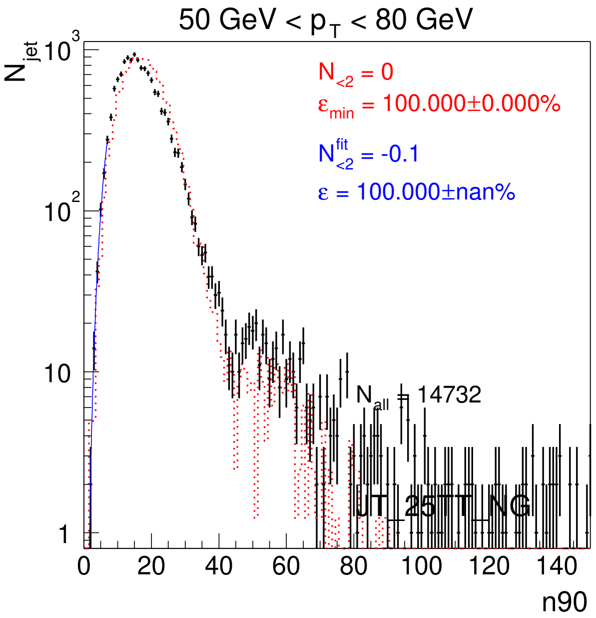
- jetcorr v04-02-03
- always plotted as a dotted line

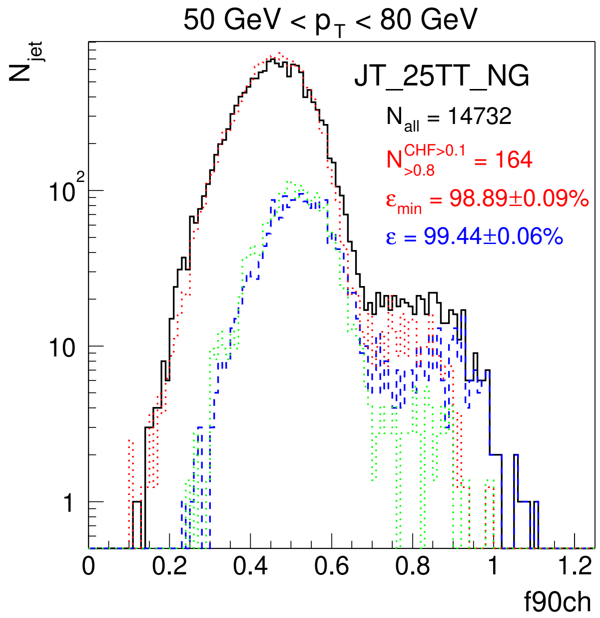
JT_25TT_NG - partI



JT_25TT_NG - partII

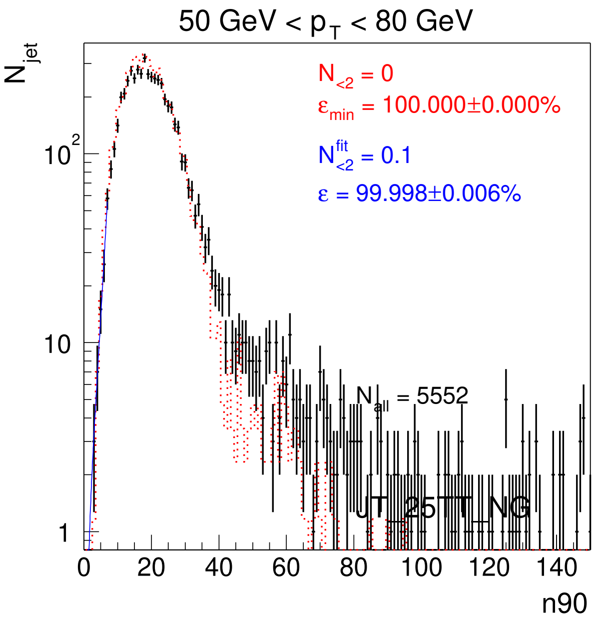
Leading jet

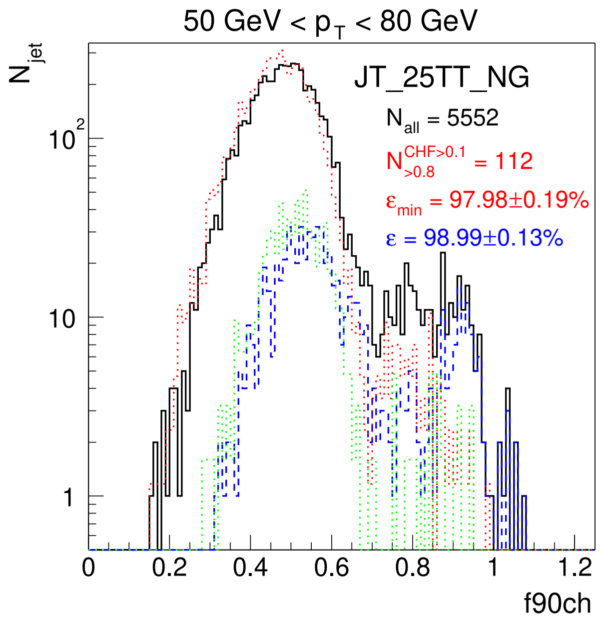




- slightly worst agreement between MC and data
- Due to trigger bias? (95% point is at 54 GeV)

Second leading jet

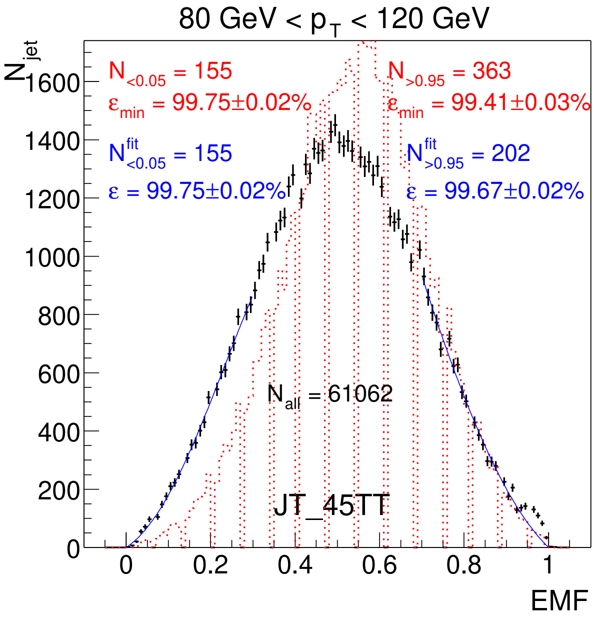


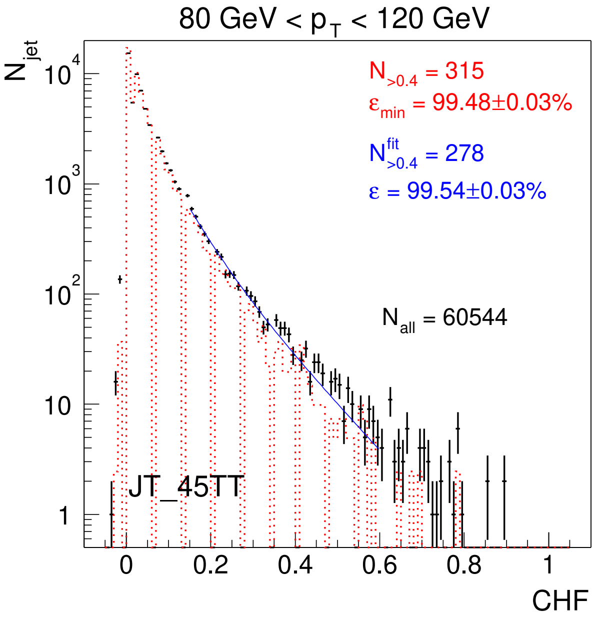


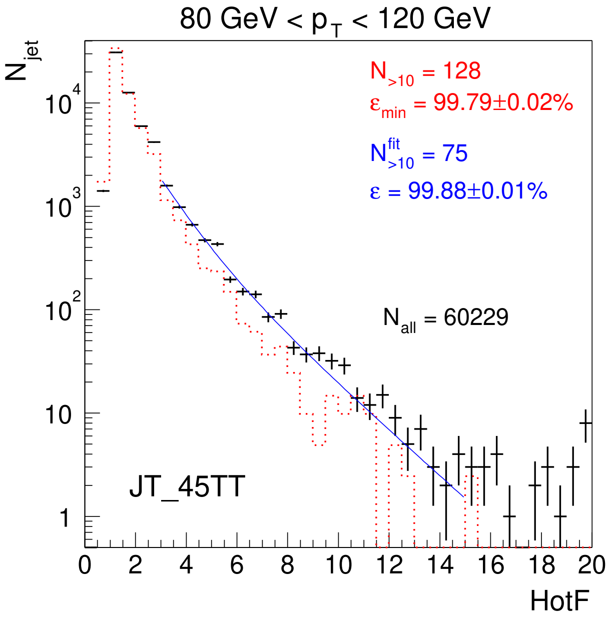
- almost perfect

JT_45TT - partI

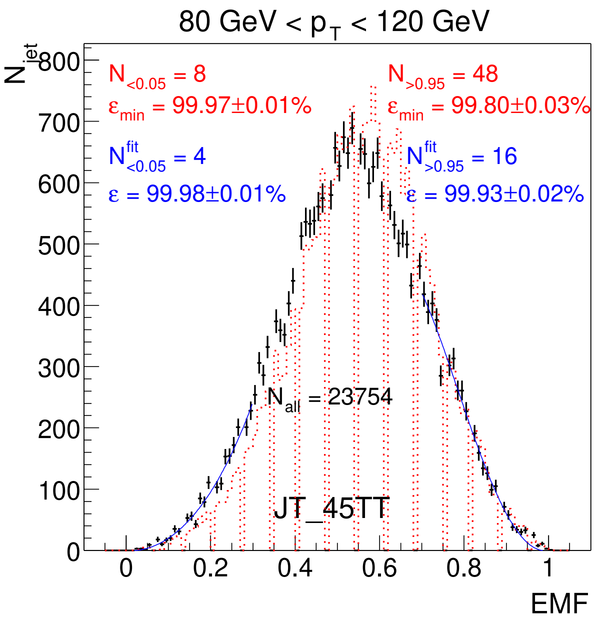
Leading jet

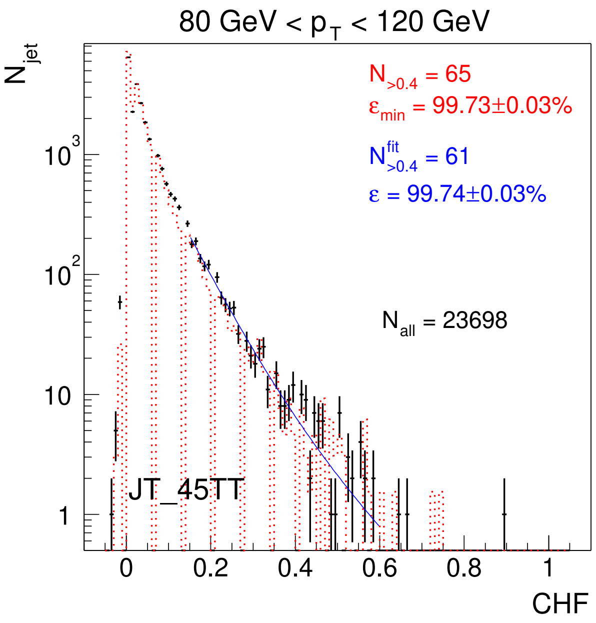


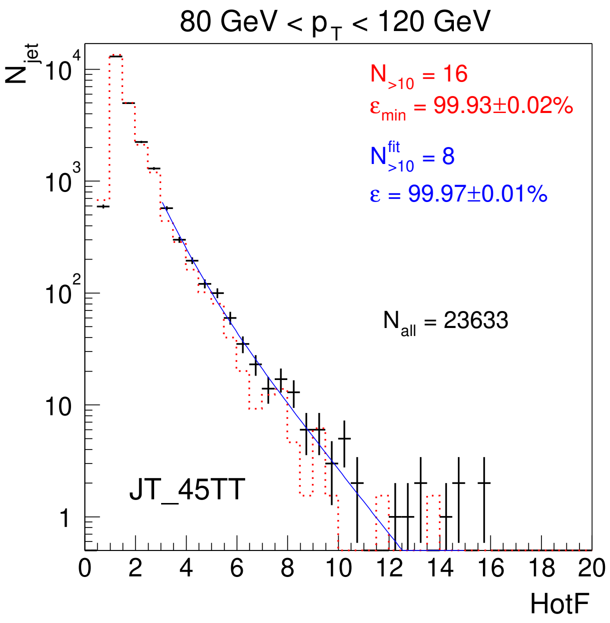




Second leading jet

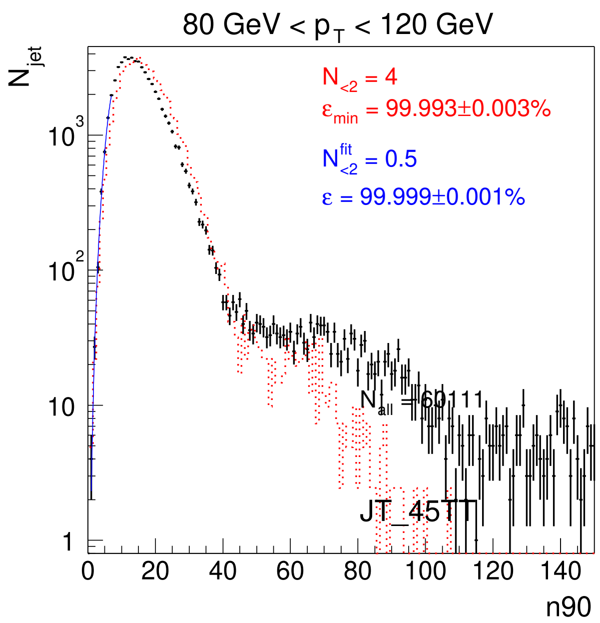


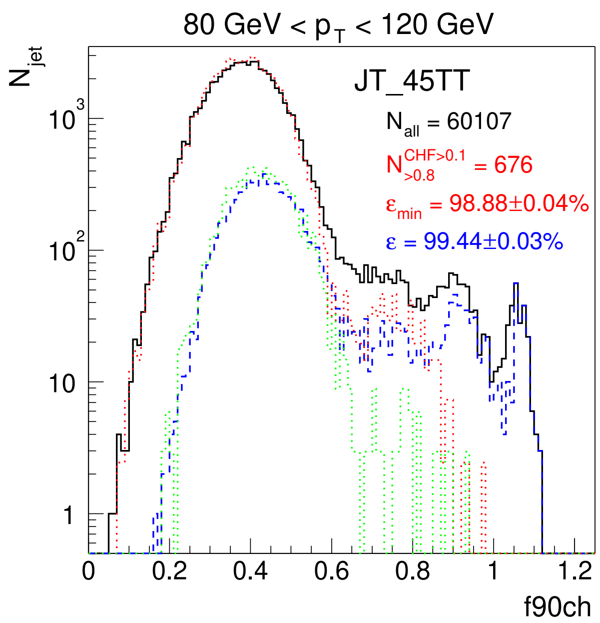




JT_45TT - partII

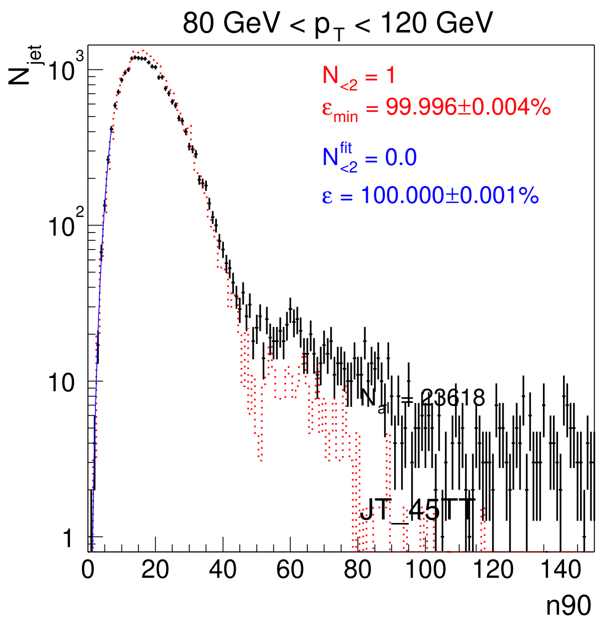
LEADING JET

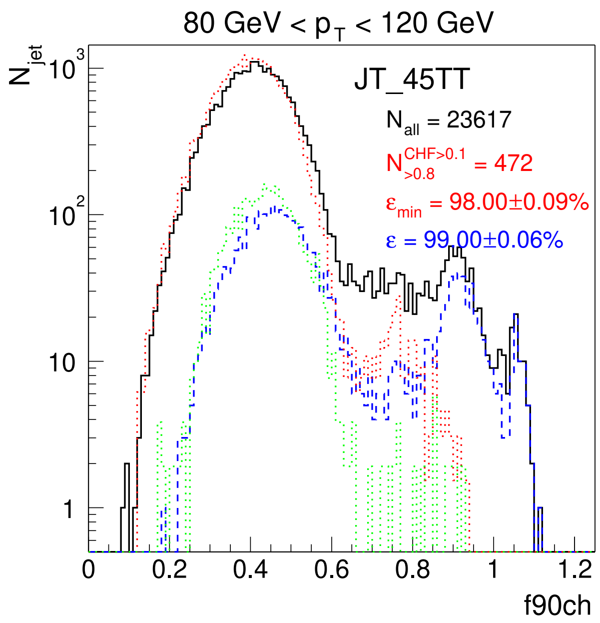




- 95% point at 83 GeV

SECOND LEADING JET

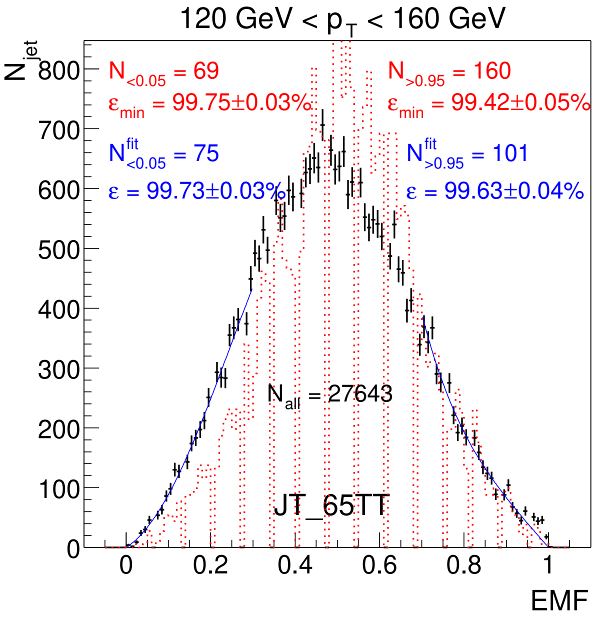


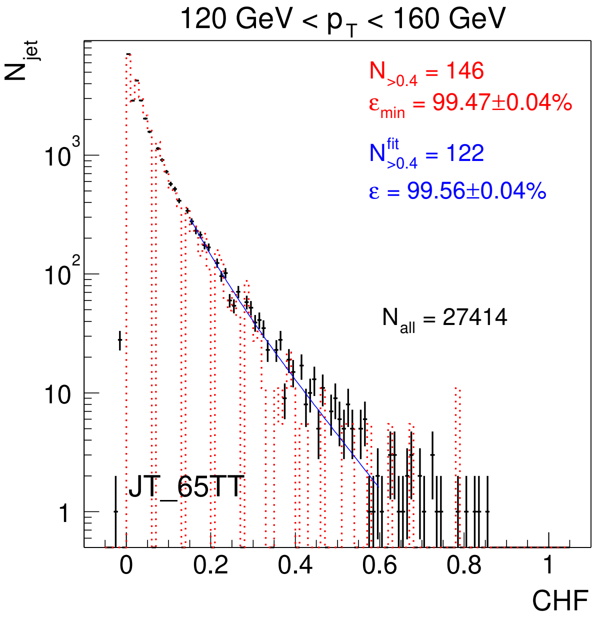


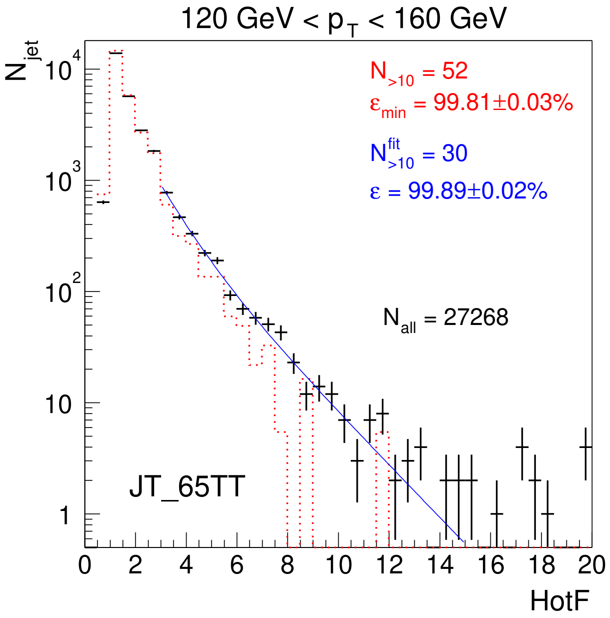
- almost perfect except f90ch > 0.6

JT_65TT - partI

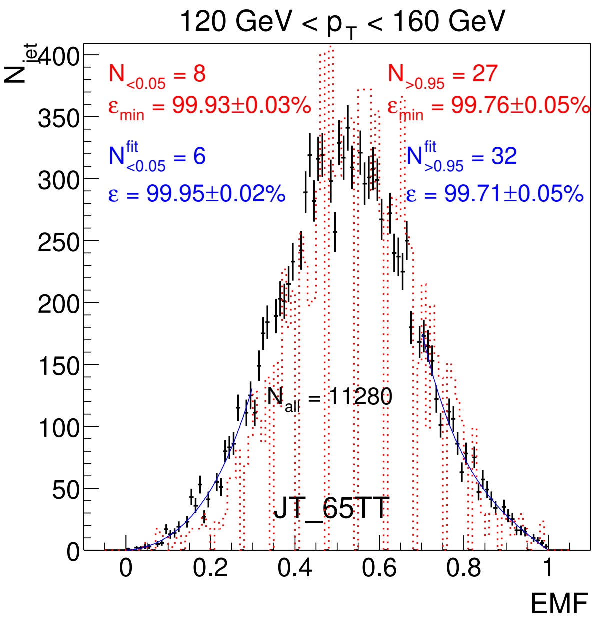
Leading jet

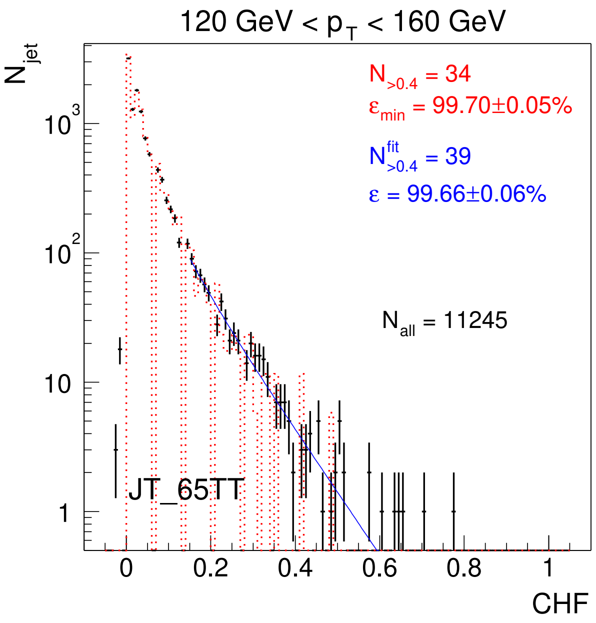


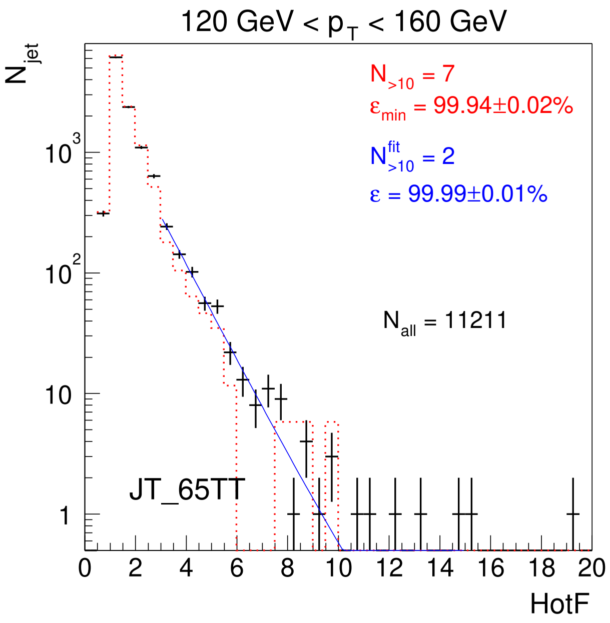




Second leading jet

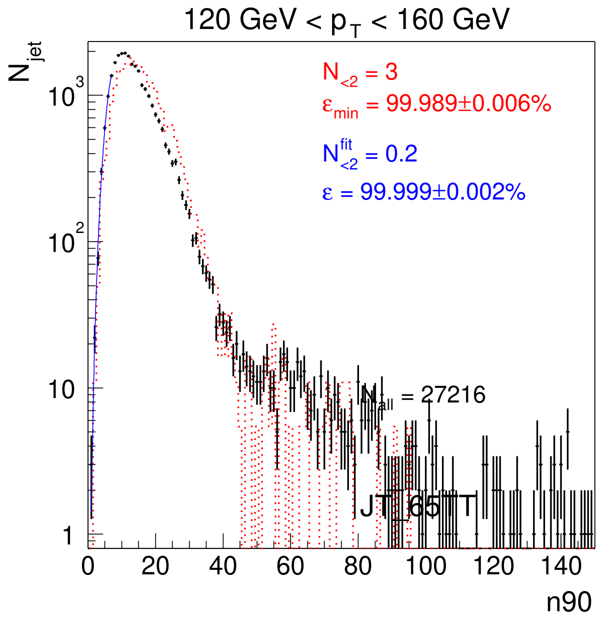


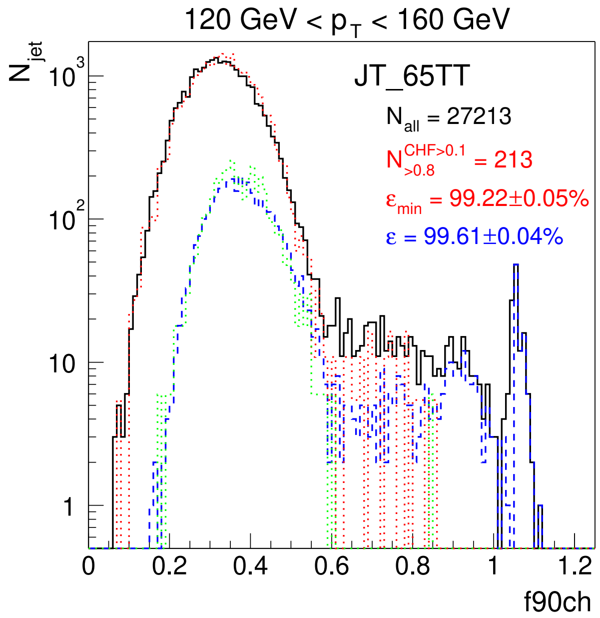




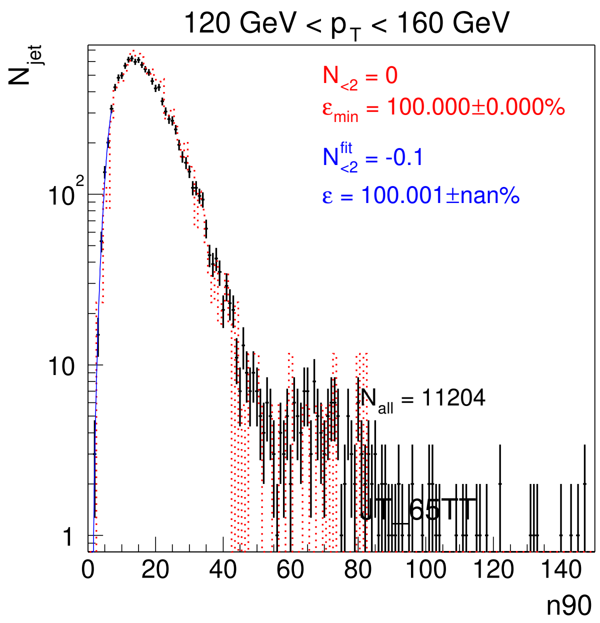
JT_65TT - partII

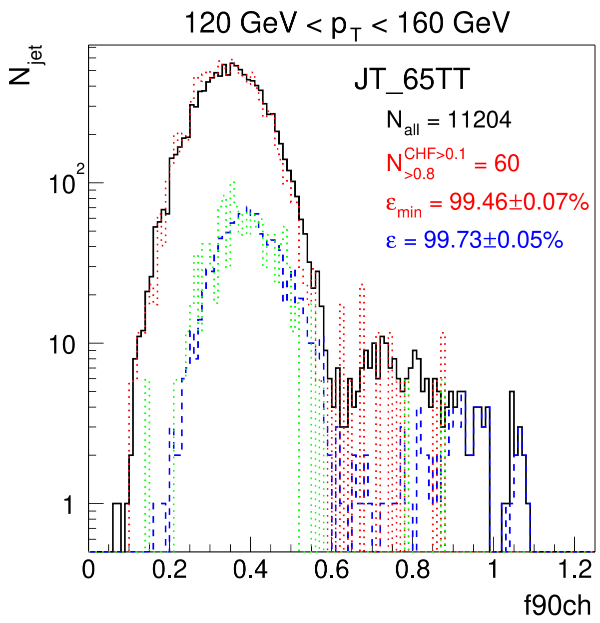
LEADING JET





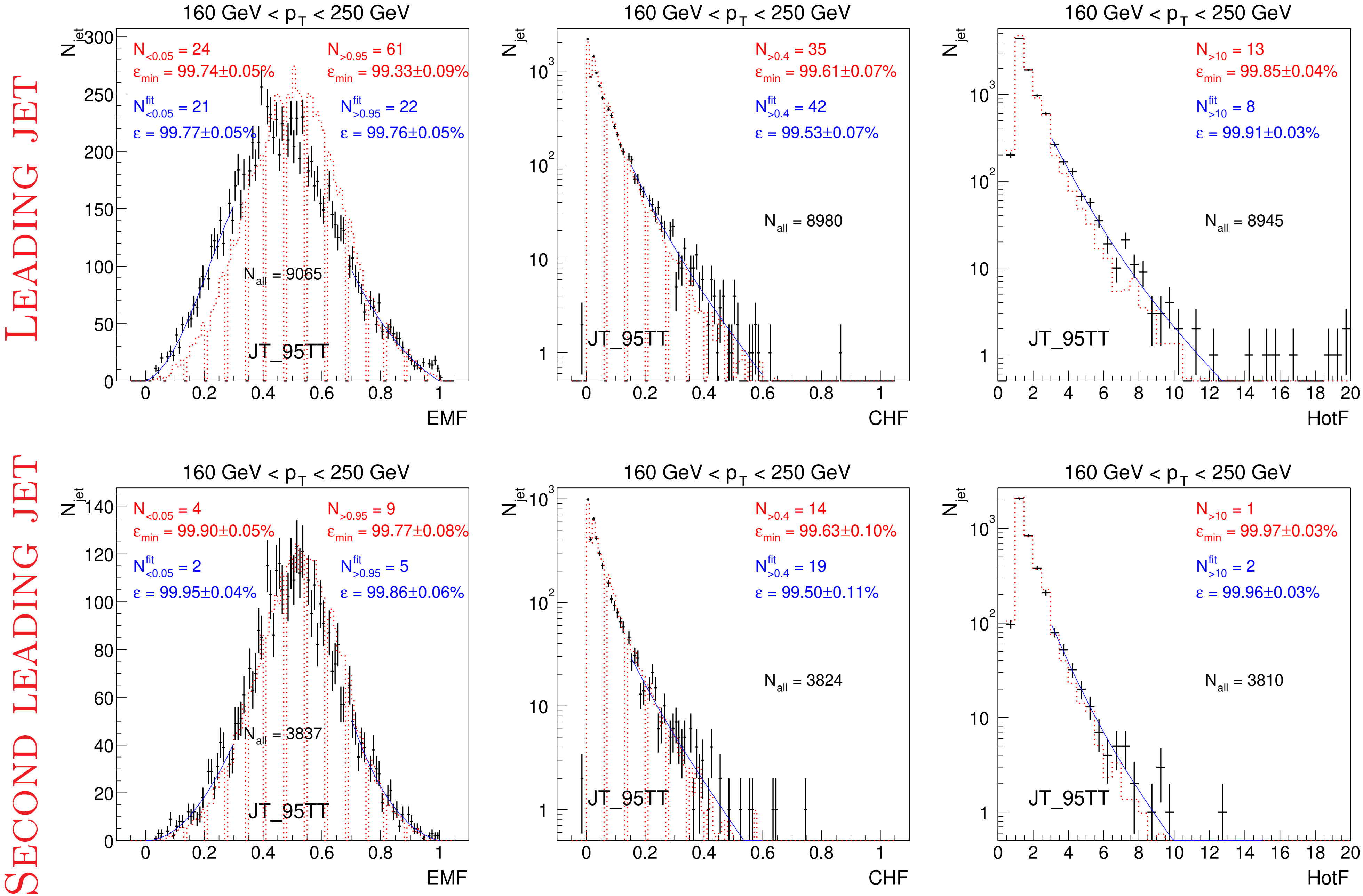
SECOND LEADING JET





- 95% point at 110 GeV

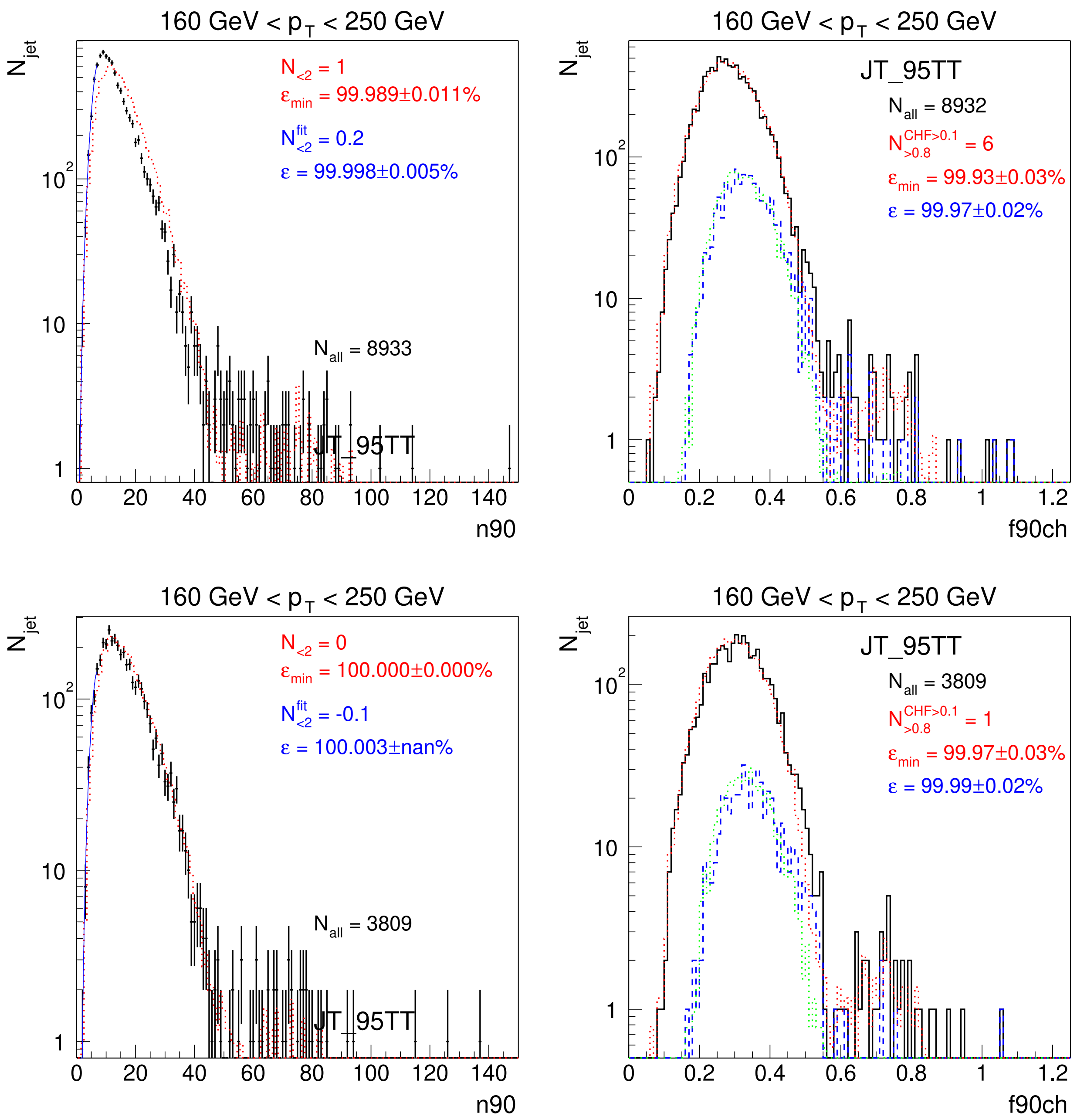
JT_95TT - partI



JT_95TT - partII

LEADING JET

SECOND LEADING JET



- 95% point at 154 GeV