Progress on jet ID and jet rates

QCD meeting : November 19, 2001

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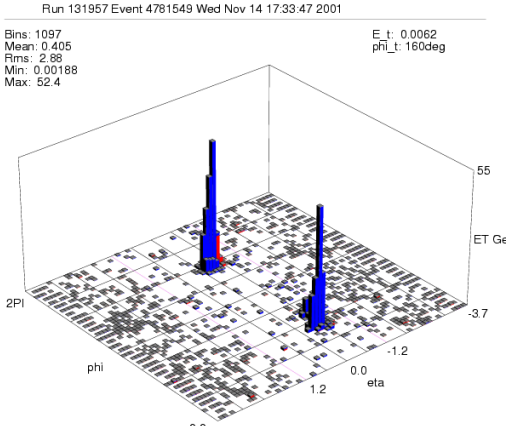
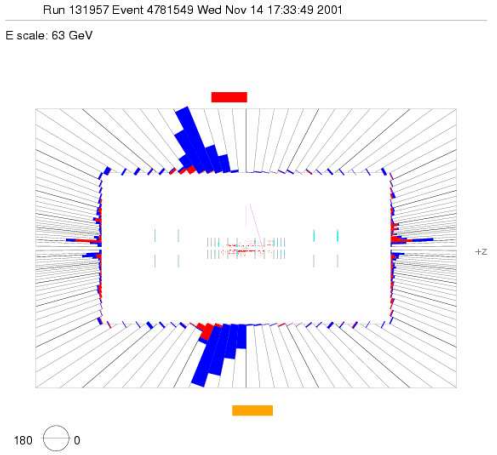
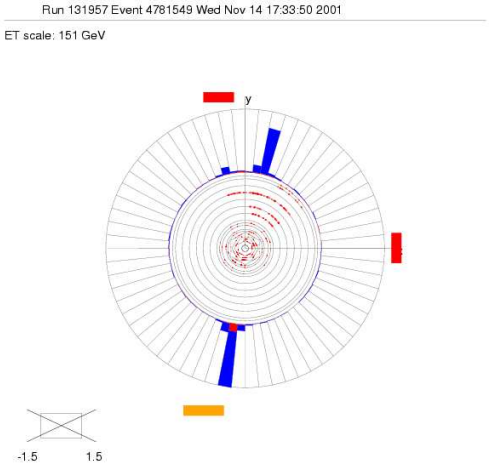
Run 131957, event 4781549

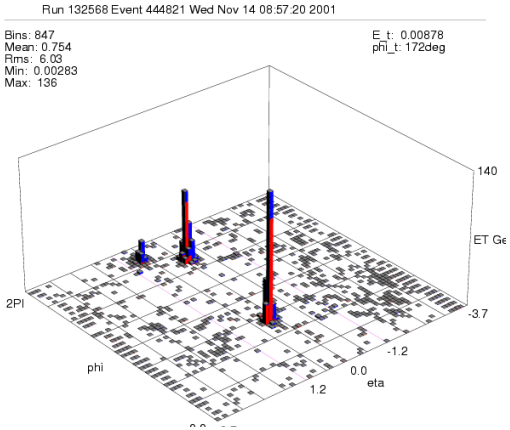


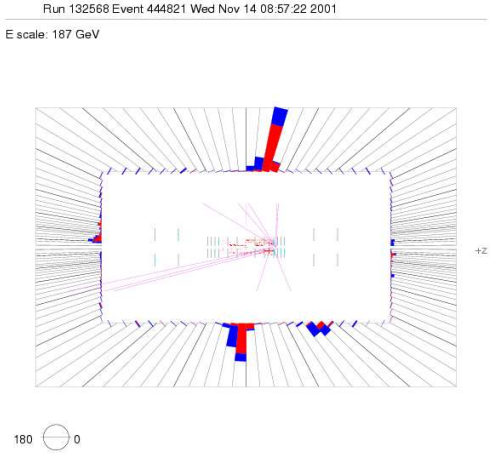


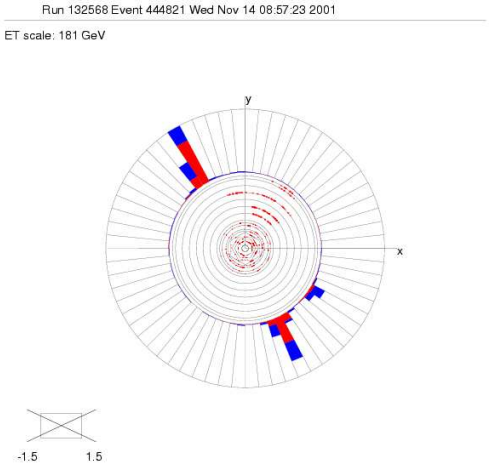


- $MET = 23\,\mathrm{GeV}$
- two jet *event*
  - $p_T^{1jet} = 226\,\mathrm{GeV}$
  - $p_T^{2jet} = 192\,\mathrm{GeV}$

Run 132568, event 444821

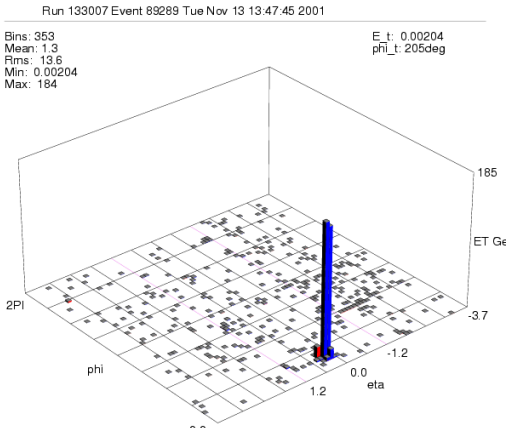


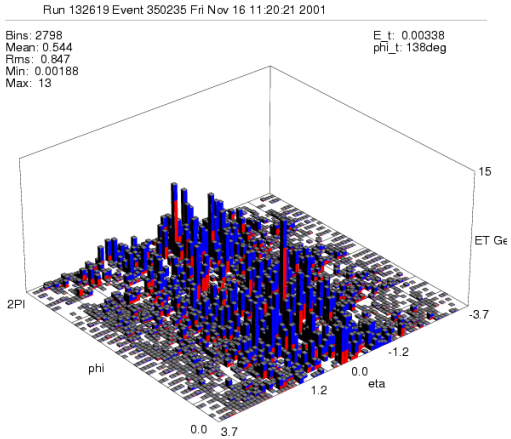


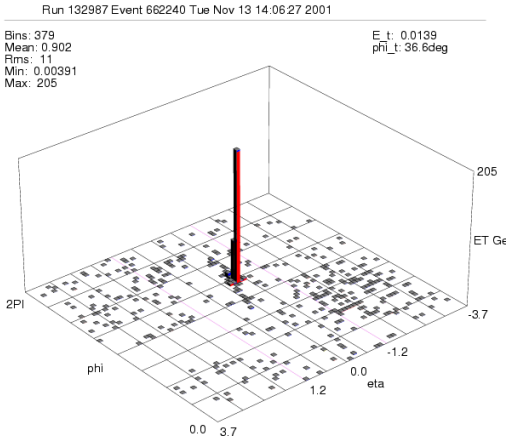


- ▷ $MET = 8\,\mathrm{GeV}$
- ▷ *four jet event*
  - $p_T^{1jet} = 308\,\mathrm{GeV}$
  - $p_T^{2jet} = 224\,\mathrm{GeV}$
  - $p_T^{3jet} = 107\,\mathrm{GeV}$
  - $p_T^{4jet} = 12\,\mathrm{GeV}$

Not that nice events



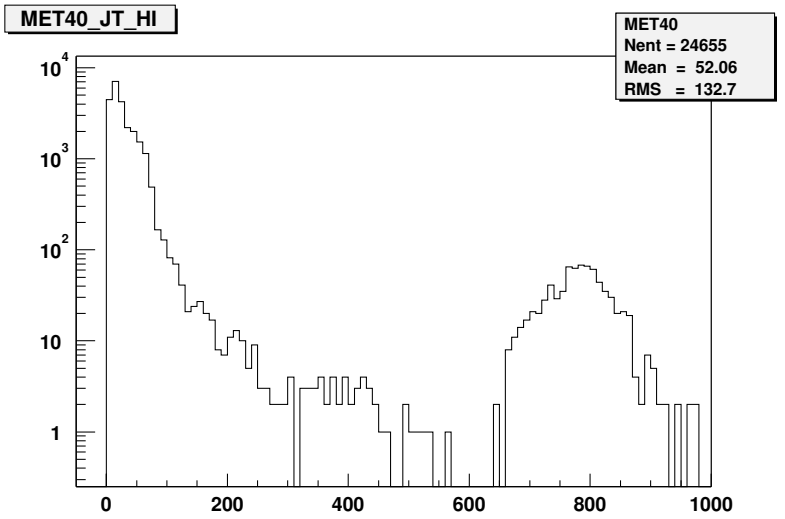


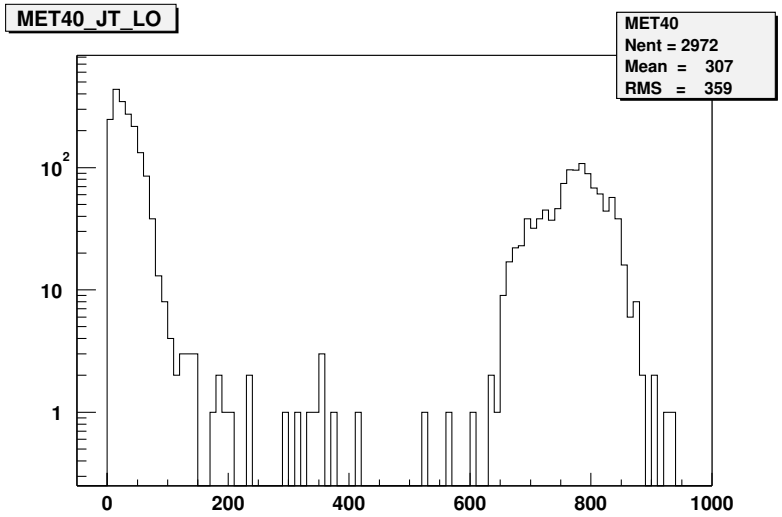


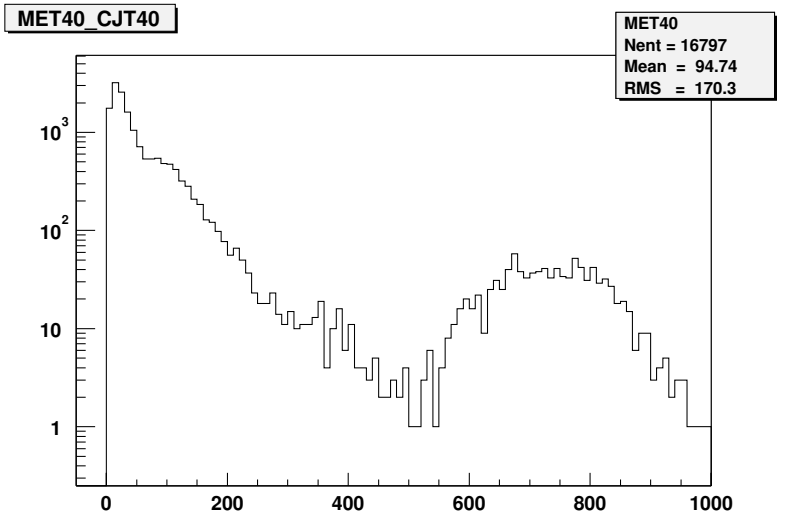
- ▷ *all jets passed jet quality cuts*
- ▷ *event quality criteria are needed*
  - $MET < 0.7\, p_T^{leading\ jet}$
  - $n_{cal} < 9000$ (?)

MET distributions

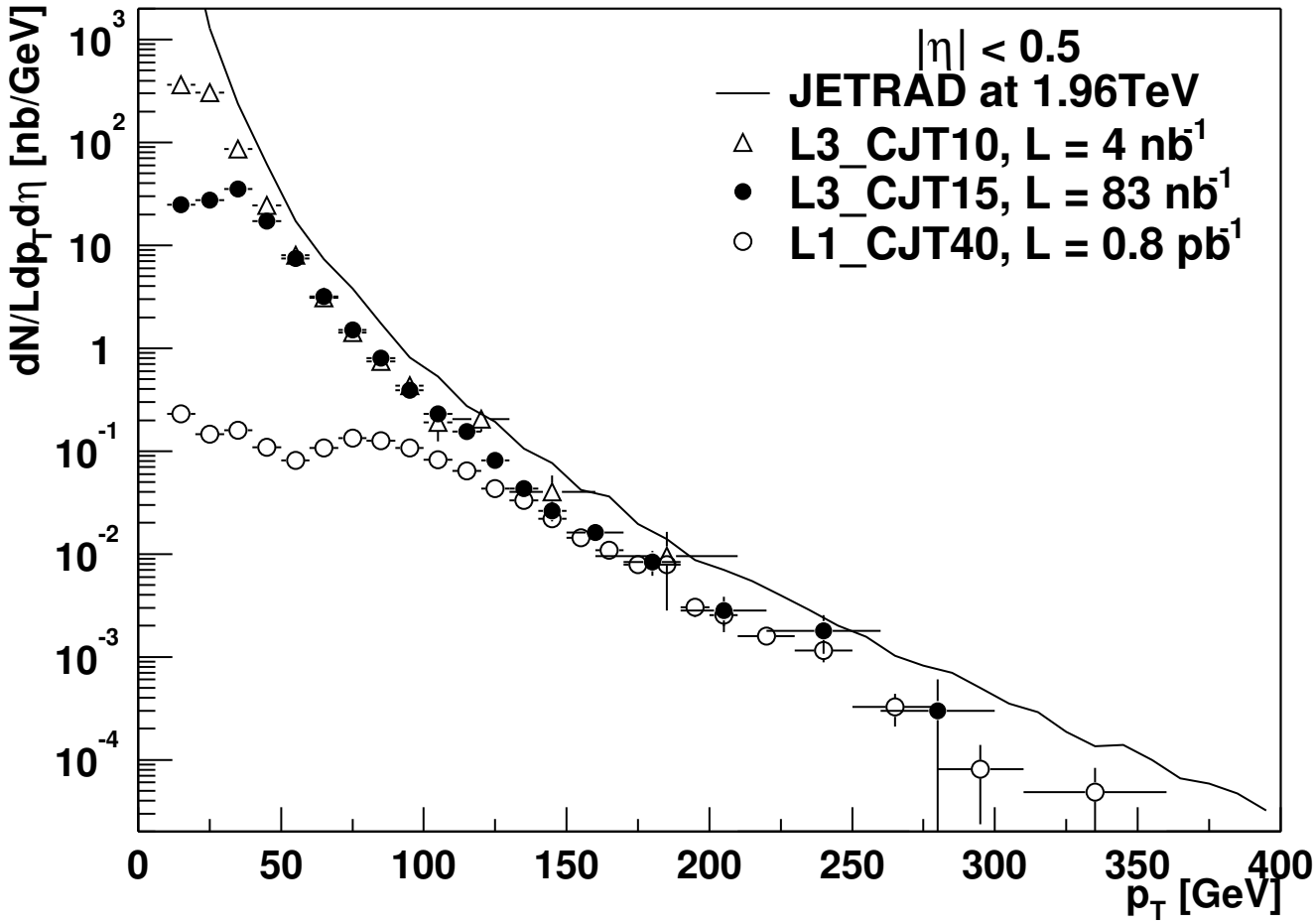
- only runs with all three triggers
- possible sources
  - missing crates
  - hot regions
- harder to normalize the data



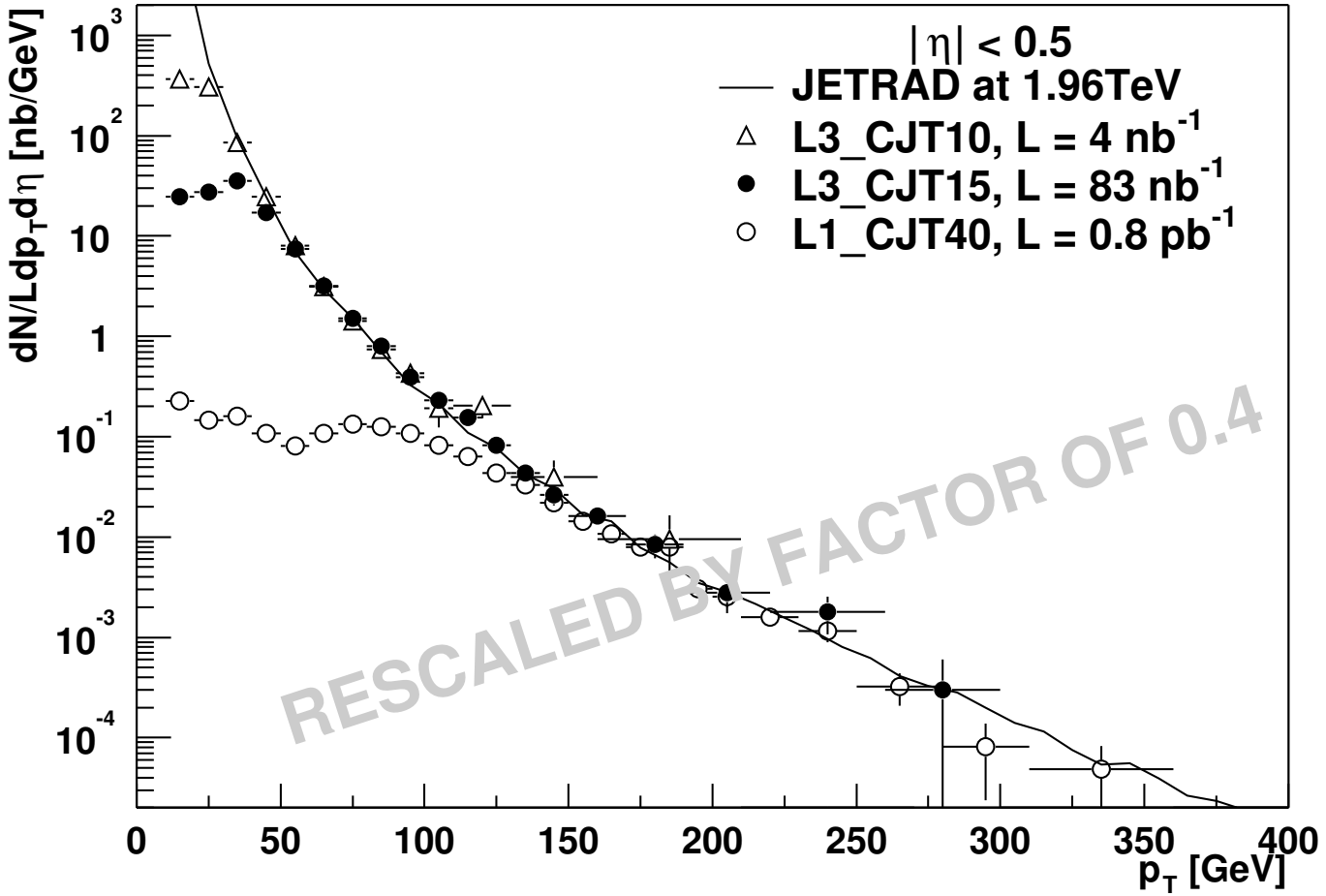




jet rates after MET cut

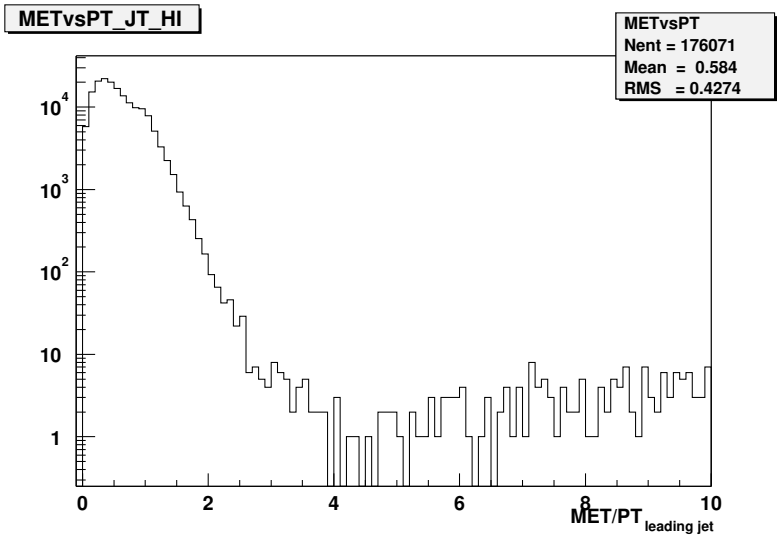
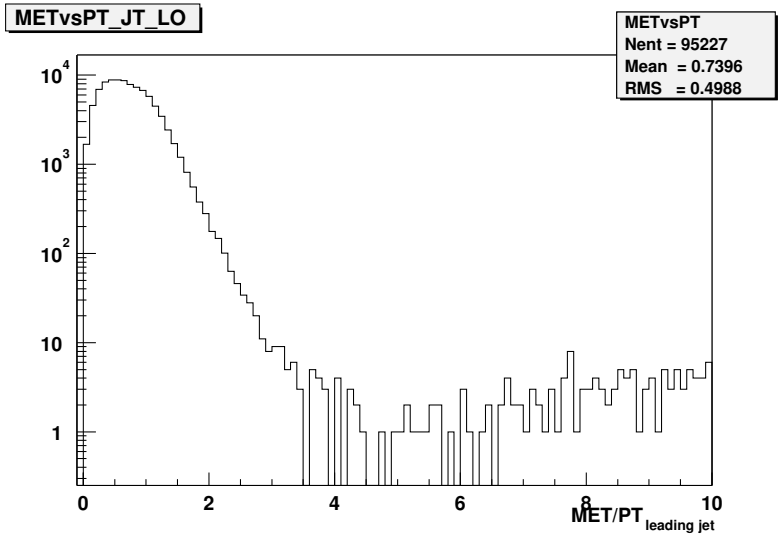
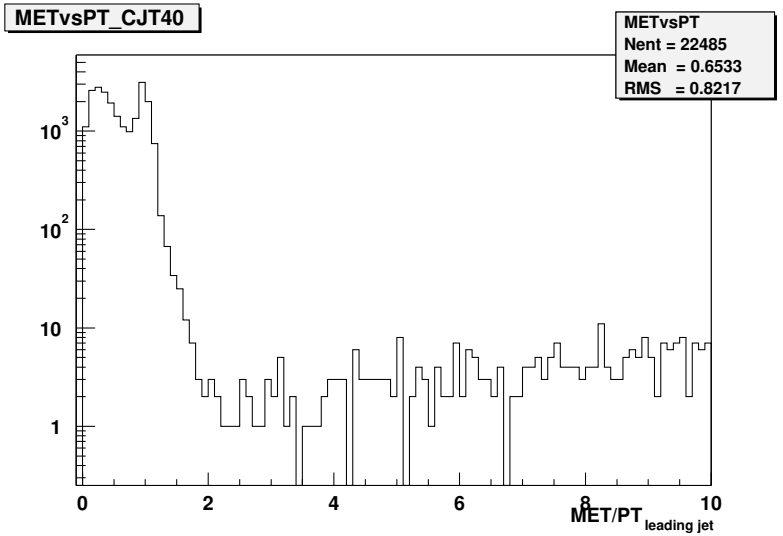


rescale of JETRAD



MET over PT

- are we really sure about the event selection criterium

$$MET < 0.7\, p_T^{leading\ jet}$$

- issue of missing crates