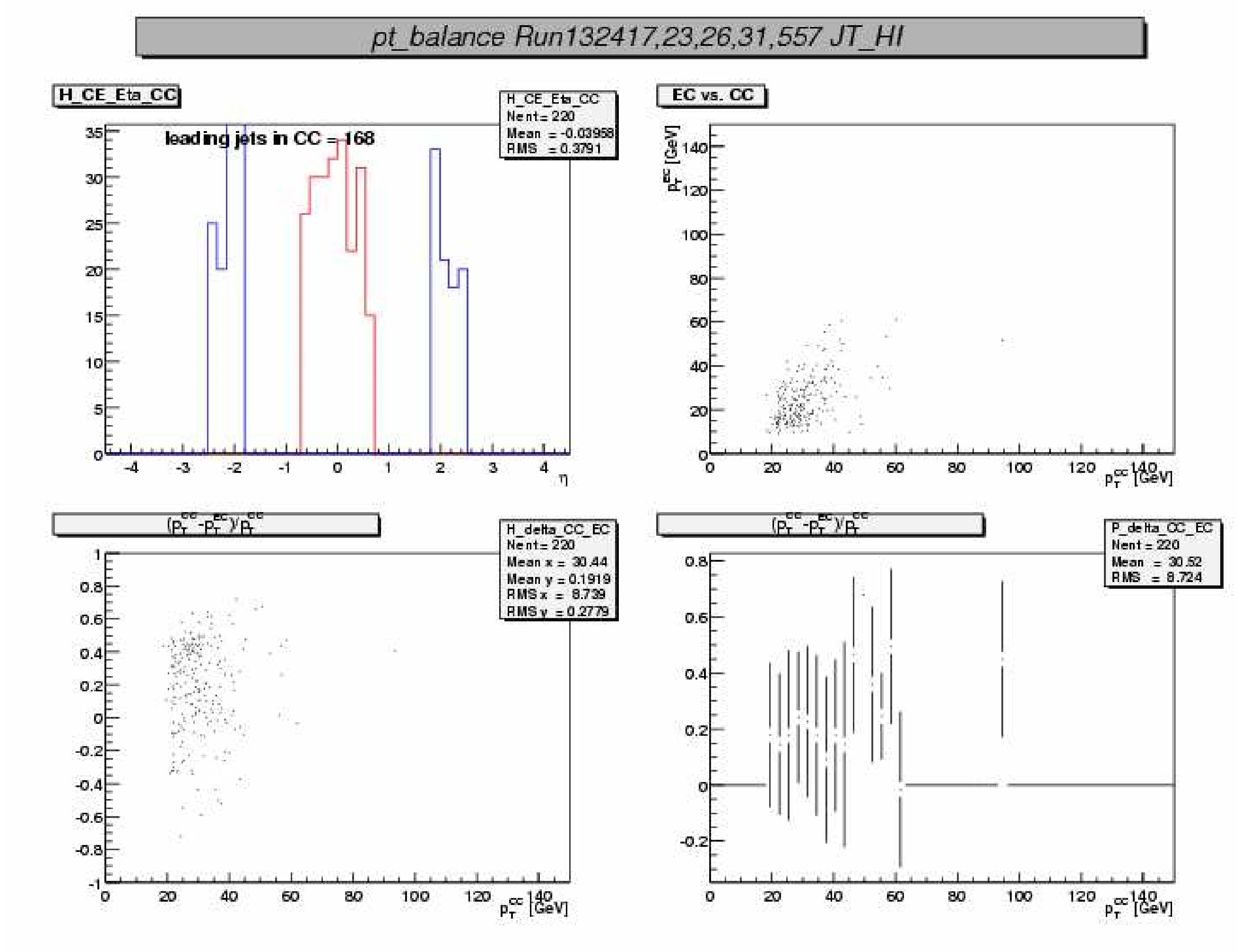
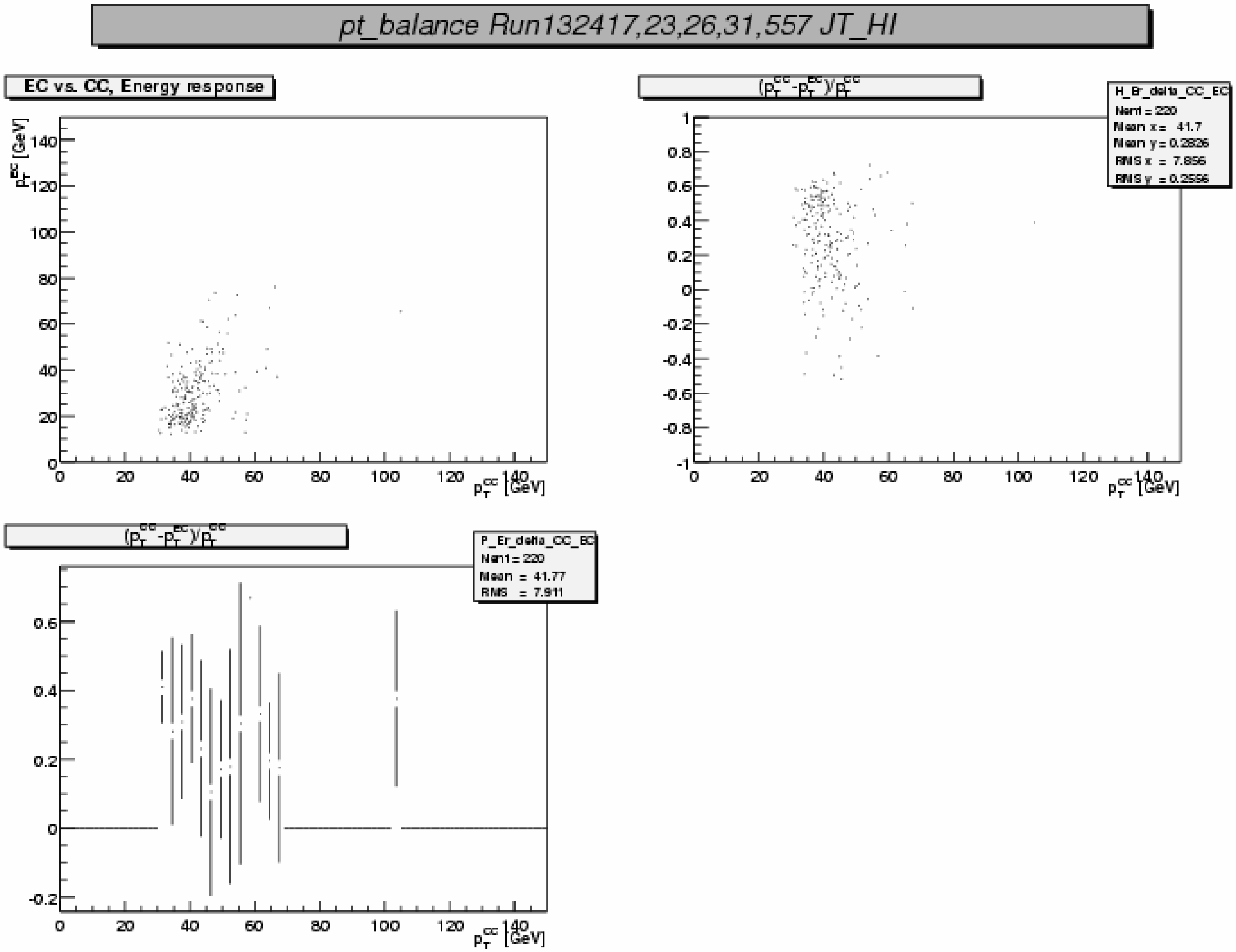
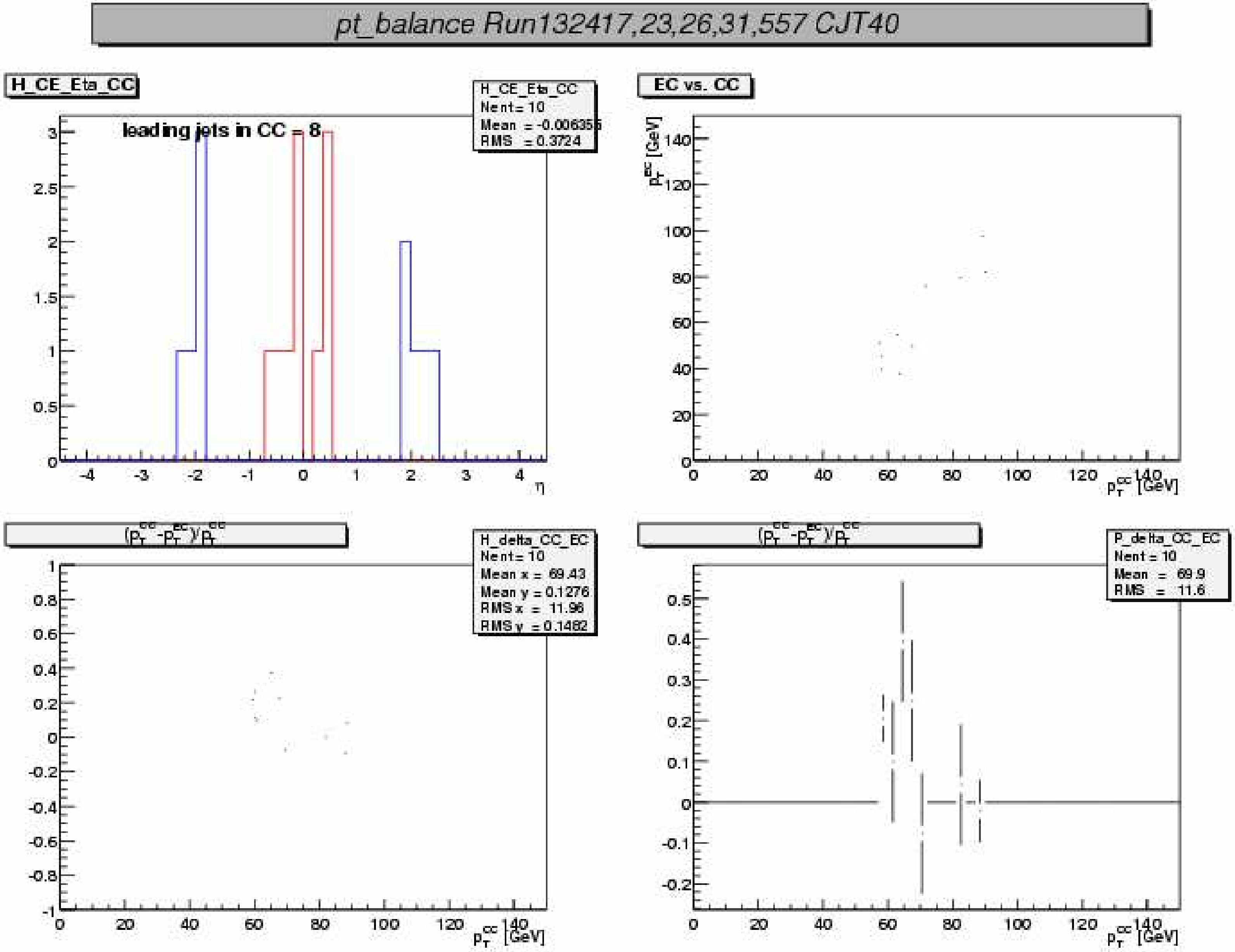
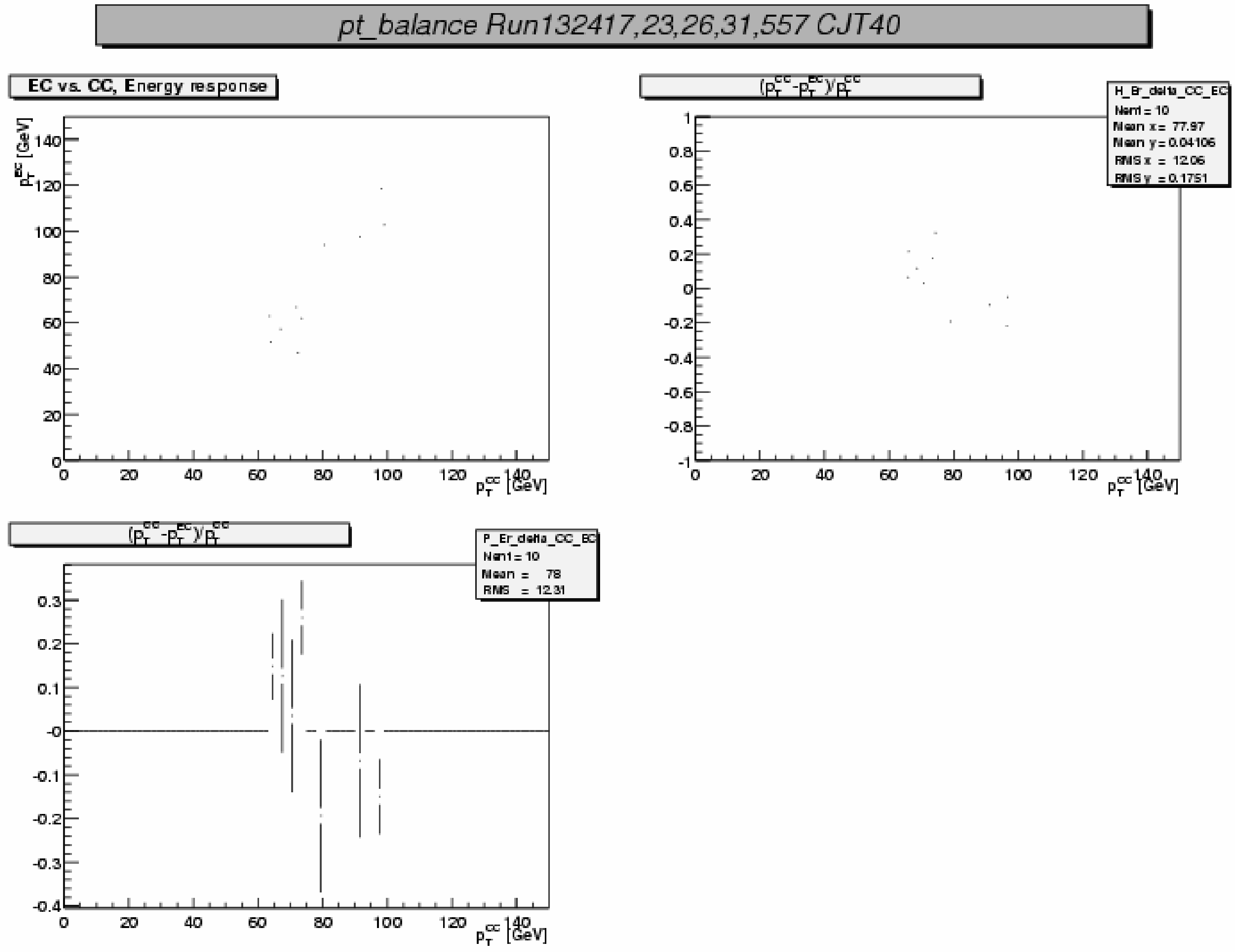
pt balance in CC and EC

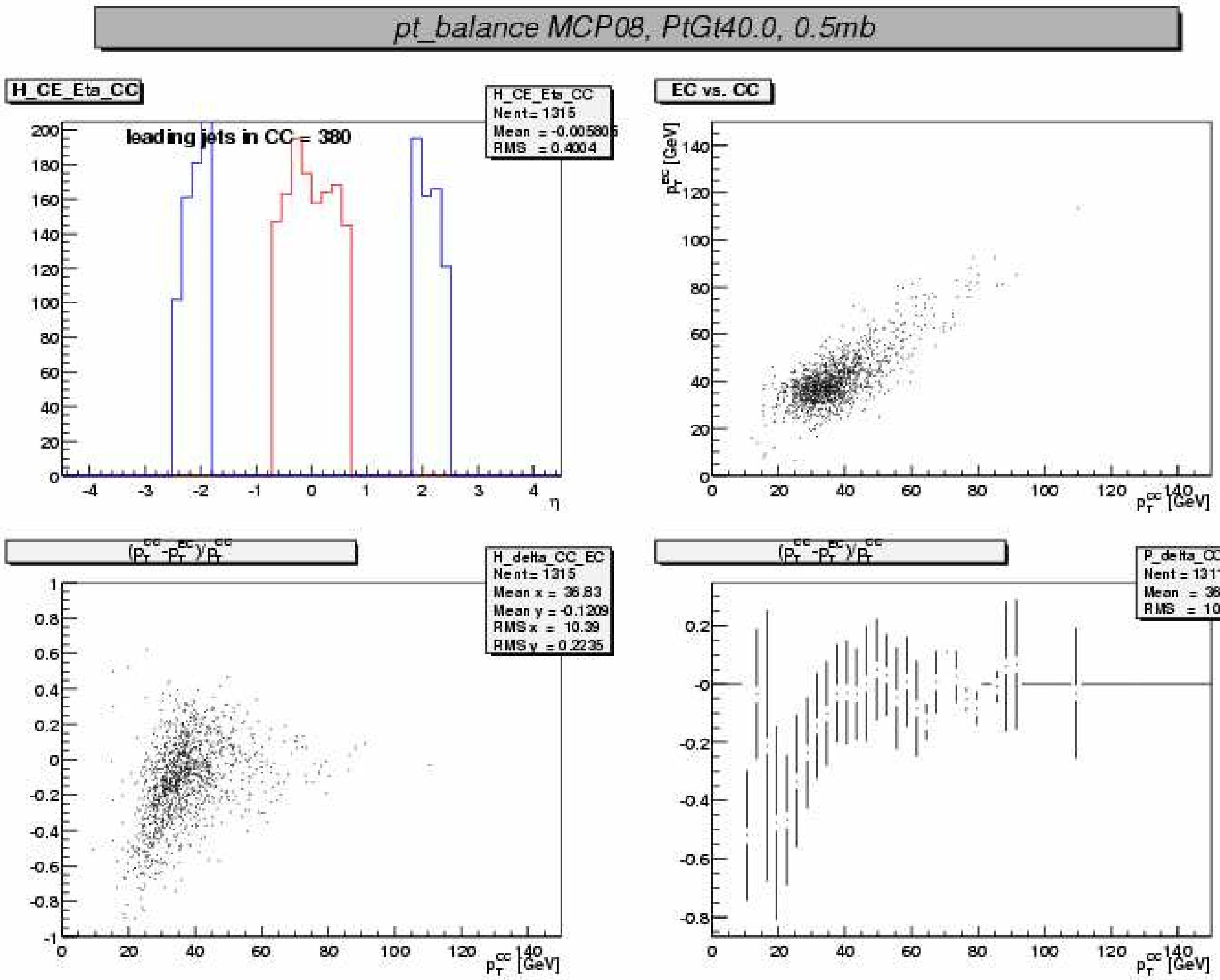
- Run 132417,23,26,31,557
- CC region: $|\eta| < 0.7$, EC region: $1.8 < |\eta| < 2.5$
- two jet events (before and after jet quality cuts)
- one in CC region and one in EC region
- `JT_HI` and `CJT40` triggers
- factor $100/72$ applied for jet energies
- MC sample
  - MCP08 phase, PtGt40.0, 0.5 minimum bias
  - simple simulation of trigger (ejecting events with leading jet in EC)


pt_balance Run132417,23,26,31,557 JT_HI
H_CE_Eta_CC
leading jets in CC = 168
H_CE_Eta_CC
Nent = 220
Mean = -0.03958
RMS = 0.3791
η
EC vs. CC
p_T^{ec} [GeV]
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
H_delta_CC_EC
Nent = 220
Mean x = 30.44
Mean y = 0.1919
RMS x = 8.739
RMS y = 0.2779
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
P_delta_CC_EC
Nent = 220
Mean = 30.52
RMS = 8.724
p_T^{cc} [GeV]

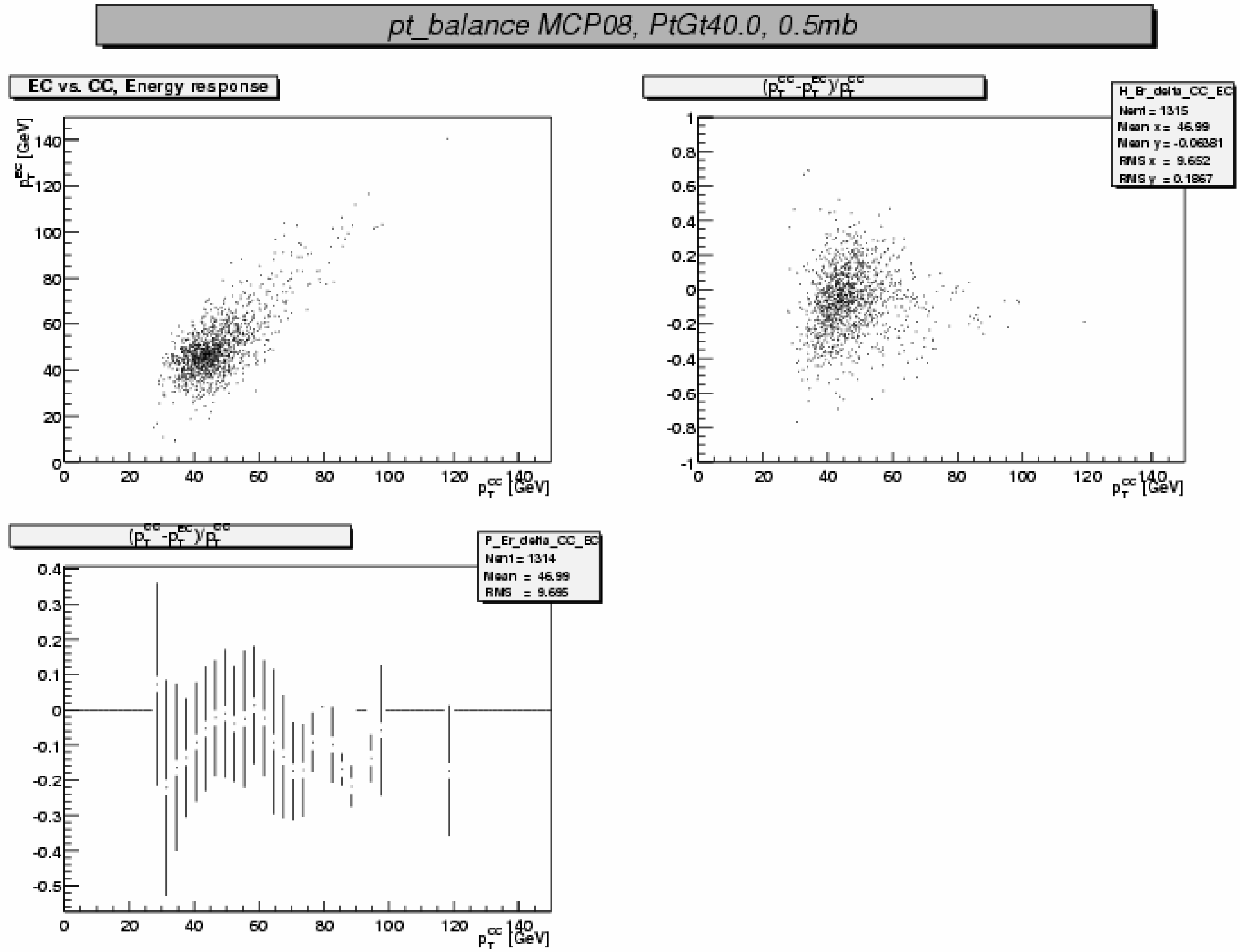

pt_balance Run132417,23,26,31,557 JT_HI
EC vs. CC, Energy response
p_T^EC [GeV]
p_T^CC [GeV]
(p_T^CC-p_T^EC)/p_T^CC
H_Er_delta_CC_EC
Nent = 220
Mean x = 41.7
Mean y = 0.2826
RMS x = 7.856
RMS y = 0.2556
p_T^CC [GeV]
(p_T^CC-p_T^EC)/p_T^CC
P_Er_delta_CC_EC
Nent = 220
Mean = 41.77
RMS = 7.911
p_T^CC [GeV]

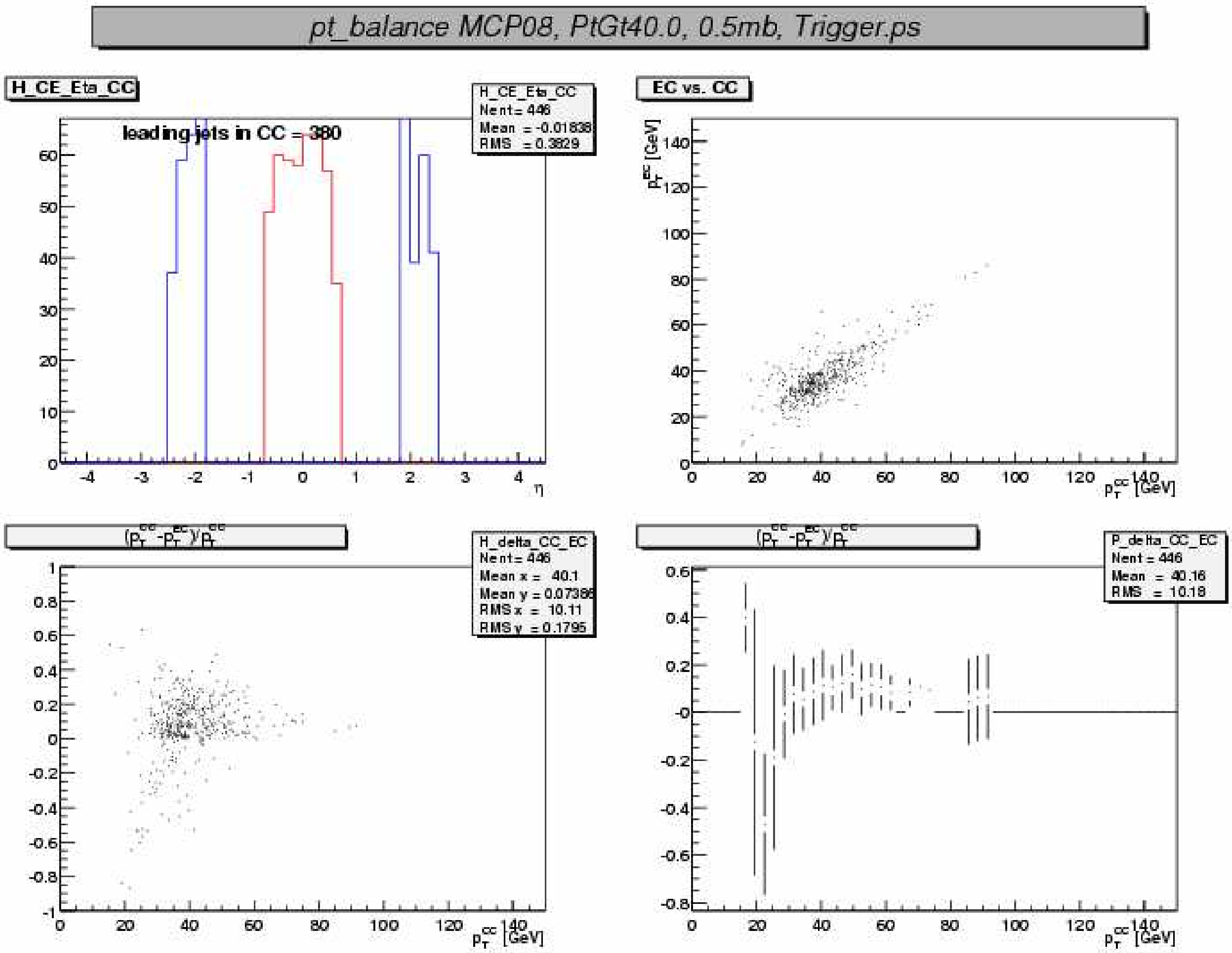

pt_balance Run132417,23,26,31,557 CJT40
H_CE_Eta_CC
leading jets in CC = 8
H_CE_Eta_CC
Nent = 10
Mean = -0.006356
RMS = 0.3724
η
EC vs. CC
p_T^{ec} [GeV]
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
H_delta_CC_EC
Nent = 10
Mean x = 69.43
Mean y = 0.1276
RMS x = 11.96
RMS y = 0.1482
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
P_delta_CC_EC
Nent = 10
Mean = 69.9
RMS = 11.6
p_T^{cc} [GeV]

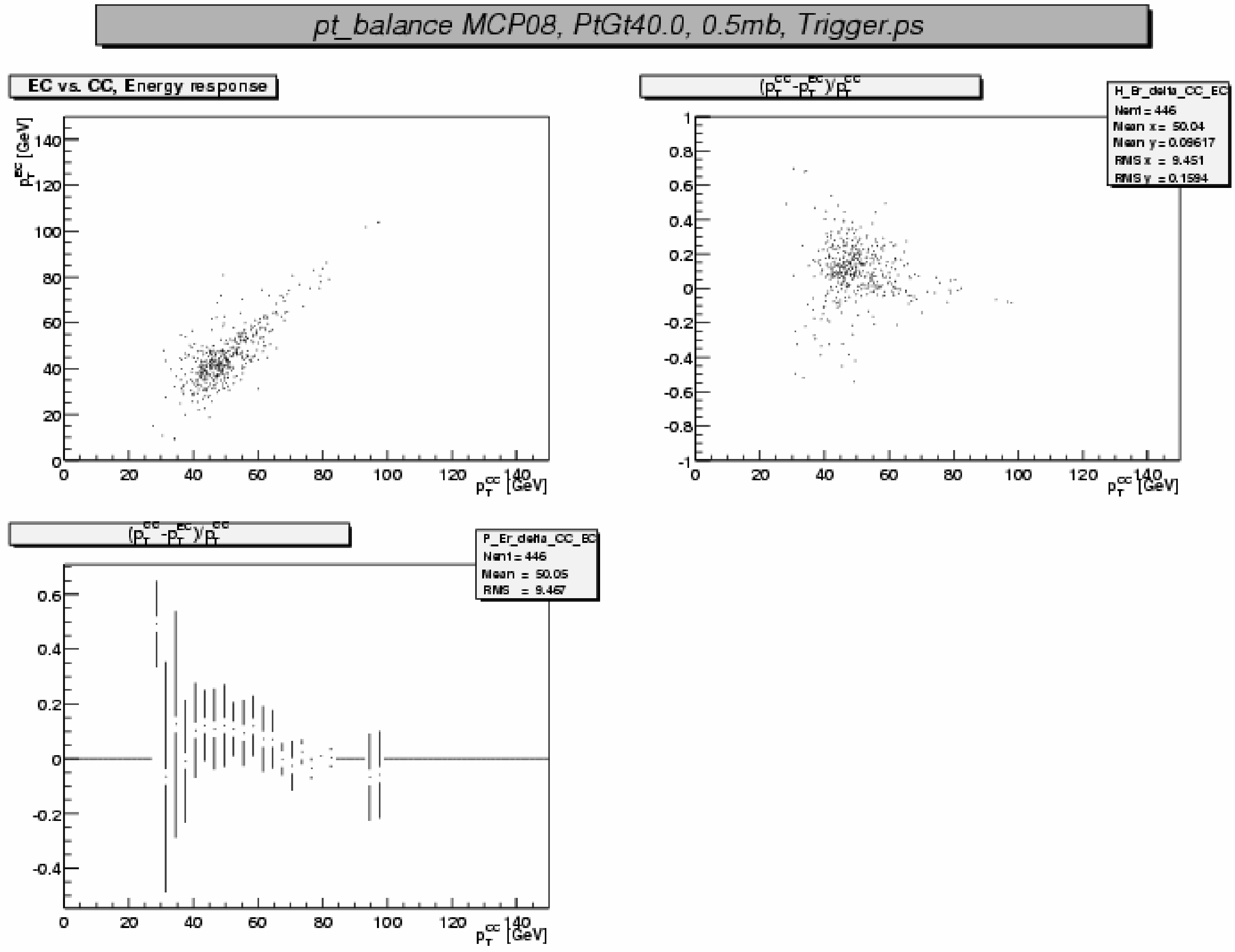

pt_balance Run132417,23,26,31,557 CJT40
EC vs. CC, Energy response
p_T^{EC} [GeV]
p_T^{CC} [GeV]
$(p_T^{CC}-p_T^{EC})/p_T^{CC}$
H_Er_delta_CC_EC
Nent = 10
Mean x = 77.97
Mean y = 0.04106
RMS x = 12.06
RMS y = 0.1751
$(p_T^{CC}-p_T^{EC})/p_T^{CC}$
P_Er_delta_CC_EC
Nent = 10
Mean = 78
RMS = 12.31



pt_balance MCP08, PtGt40.0, 0.5mb
H_CE_Eta_CC
leading jets in CC = 380
H_CE_Eta_CC
Nent = 1315
Mean = -0.005805
RMS = 0.4004
η
EC vs. CC
p_T^{ec} [GeV]
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
H_delta_CC_EC
Nent = 1315
Mean x = 36.83
Mean y = -0.1209
RMS x = 10.39
RMS y = 0.2235
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
P_delta_CC_EC
Nent = 1311
Mean = 36.85
RMS = 10.44
p_T^{cc} [GeV]


pt_balance MCP08, PtGt40.0, 0.5mb
EC vs. CC, Energy response
p_T^{EC} [GeV]
p_T^{CC} [GeV]
$(p_T^{CC}-p_T^{EC})/p_T^{CC}$
H_Er_delta_CC_EC
Nent = 1315
Mean x = 46.99
Mean y = -0.06381
RMS x = 9.652
RMS y = 0.1867
p_T^{CC} [GeV]
$(p_T^{CC}-p_T^{EC})/p_T^{CC}$
P_Er_delta_CC_EC
Nent = 1314
Mean = 46.99
RMS = 9.695
p_T^{CC} [GeV]


pt_balance MCP08, PtGt40.0, 0.5mb, Trigger.ps
H_CE_Eta_CC
leading jets in CC = 380
H_CE_Eta_CC
Nent = 446
Mean = -0.01838
RMS = 0.3829
η
EC vs. CC
p_T^{ec} [GeV]
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
H_delta_CC_EC
Nent = 446
Mean x = 40.1
Mean y = 0.07386
RMS x = 10.11
RMS y = 0.1795
p_T^{cc} [GeV]
$(p_T^{cc}-p_T^{ec})/p_T^{cc}$
P_delta_CC_EC
Nent = 446
Mean = 40.16
RMS = 10.18
p_T^{cc} [GeV]


pt_balance MCP08, PtGt40.0, 0.5mb, Trigger.ps
EC vs. CC, Energy response
p_T^EC [GeV]
p_T^CC [GeV]
(p_T^CC-p_T^EC)/p_T^CC
H_Er_delta_CC_EC
Nent = 446
Mean x = 50.04
Mean y = 0.09617
RMS x = 9.451
RMS y = 0.1594
(p_T^CC-p_T^EC)/p_T^CC
P_Er_delta_CC_EC
Nent = 446
Mean = 50.05
RMS = 9.467