

study of b-JES uncertainty

16, May, 2013 Naoyuki Kamo

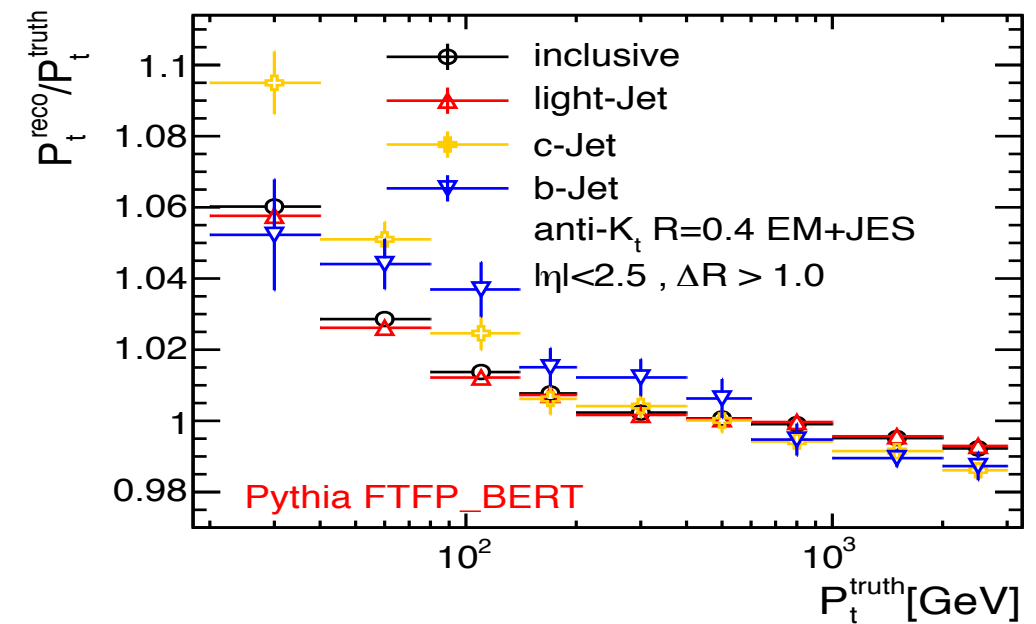
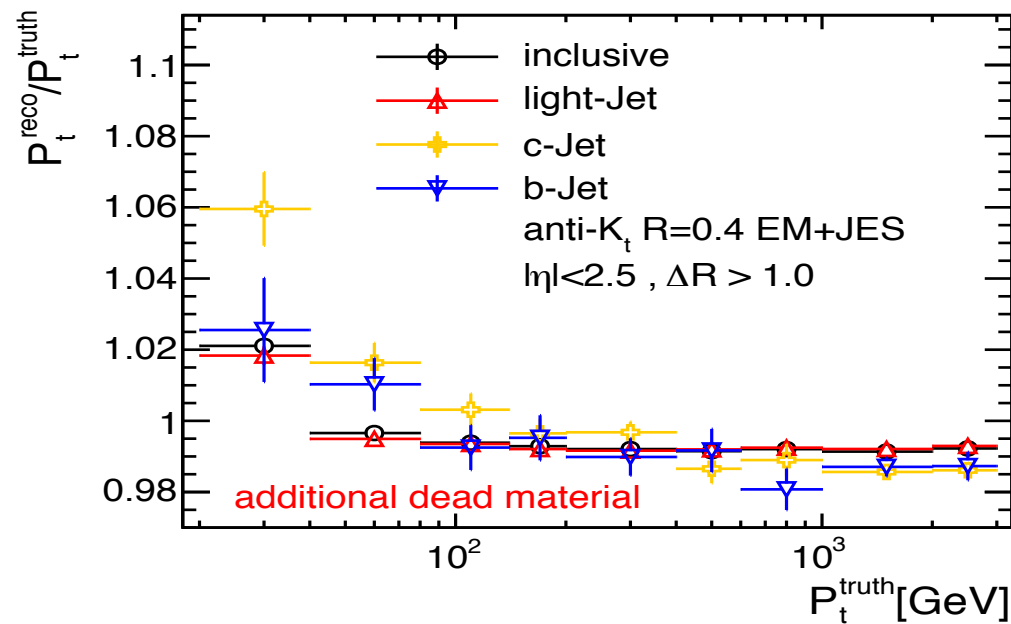
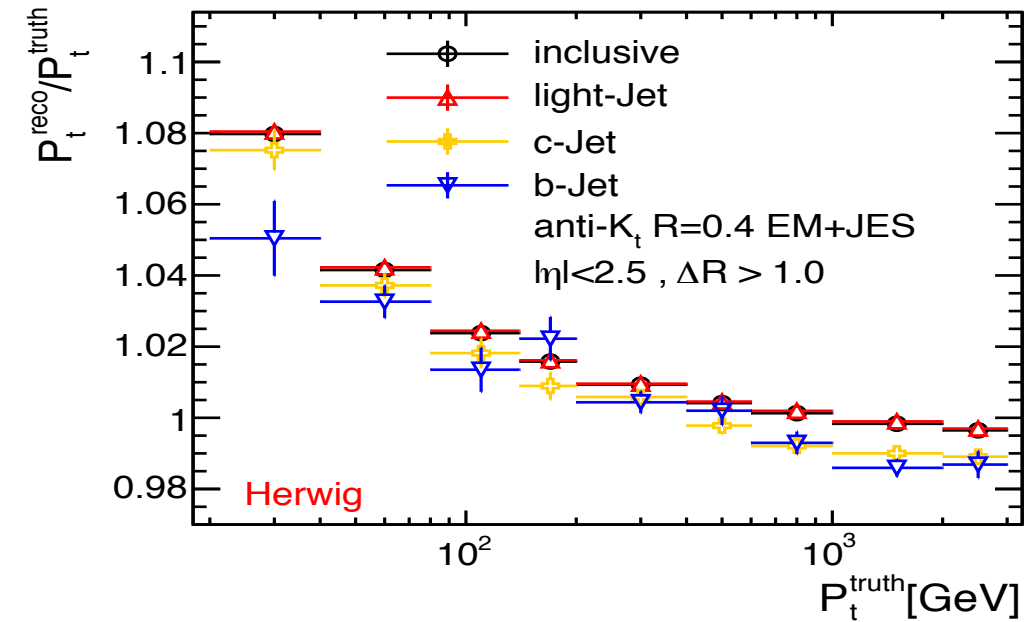
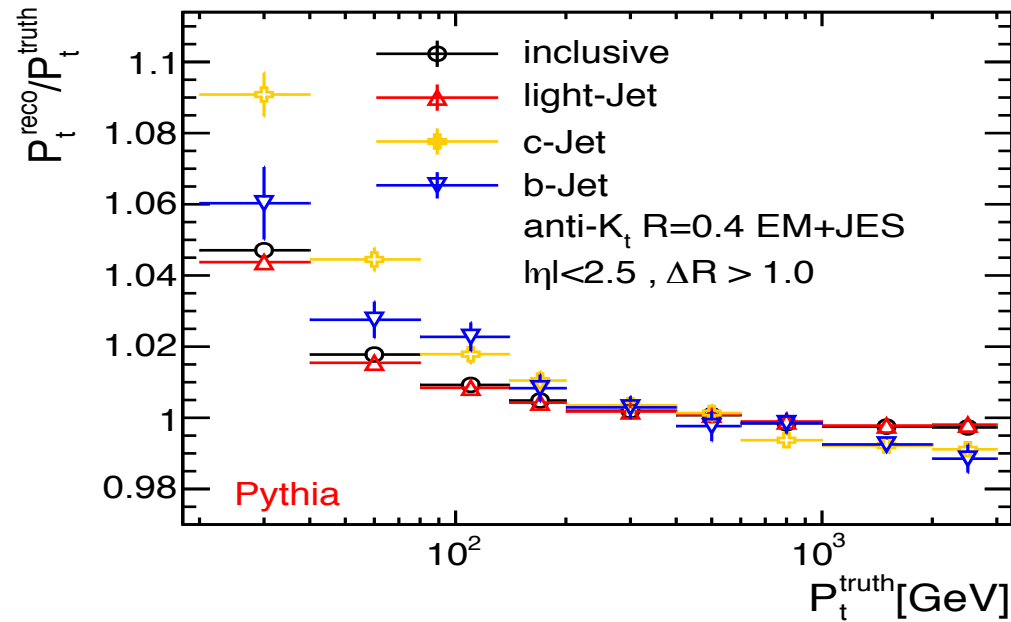
outline

- MC samples
- Jet response of each flavor jet
- Jet response of each MC samples and ratio of response
- double ratio; ratio of each flavor jet divided by inclusive jet

MC samples

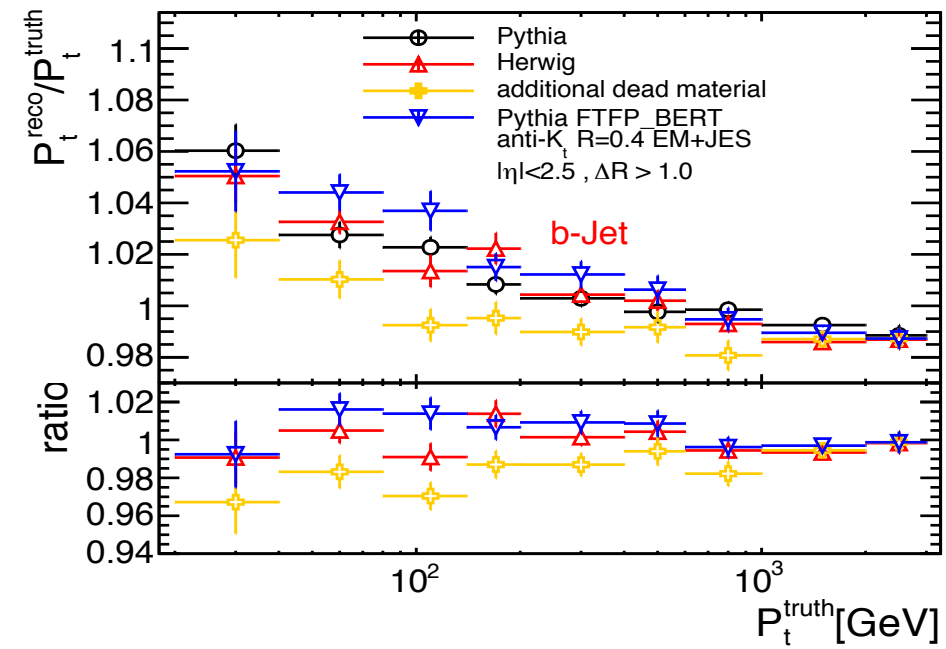
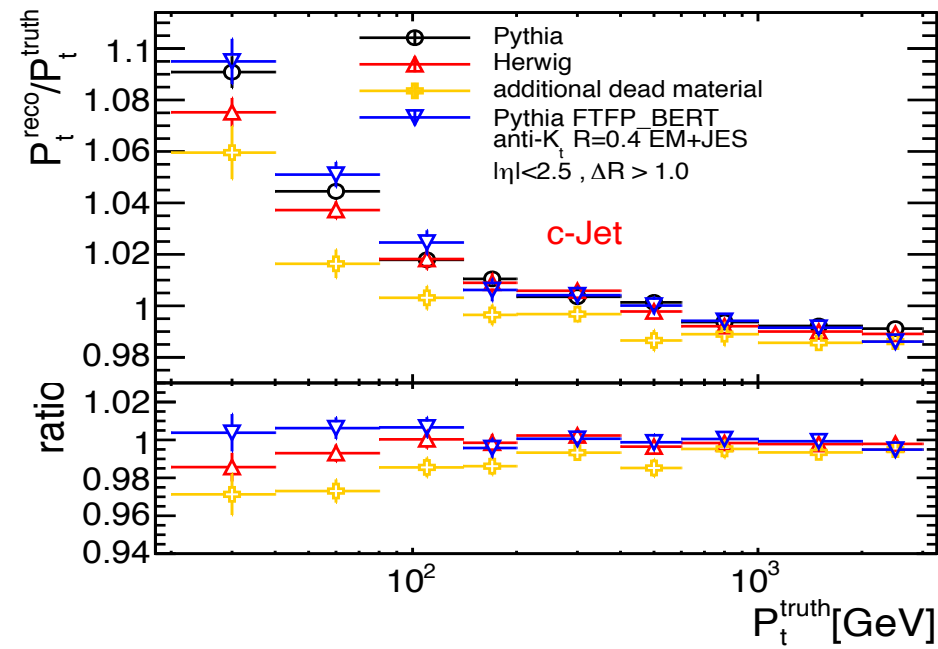
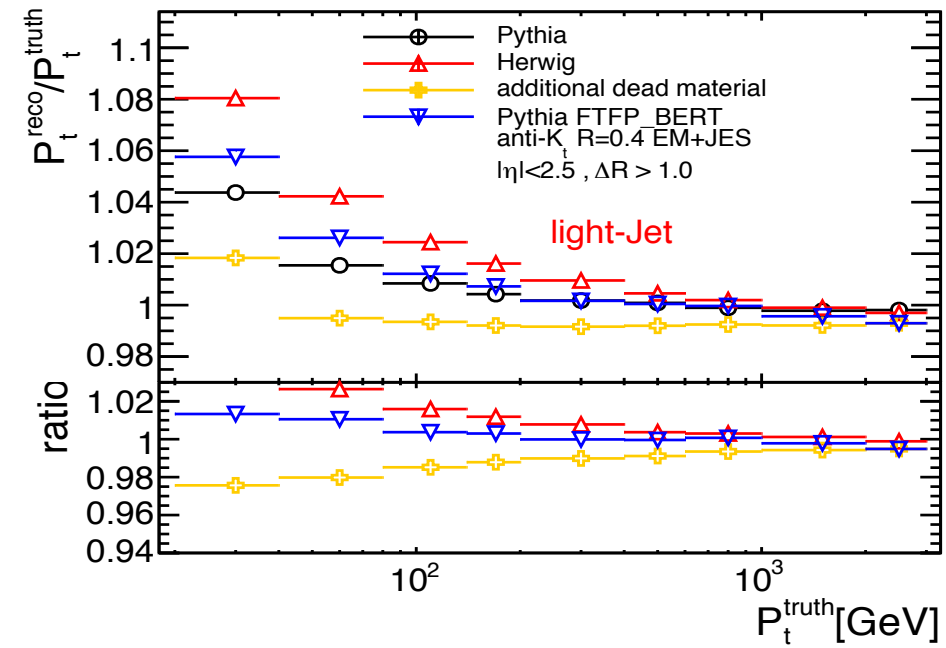
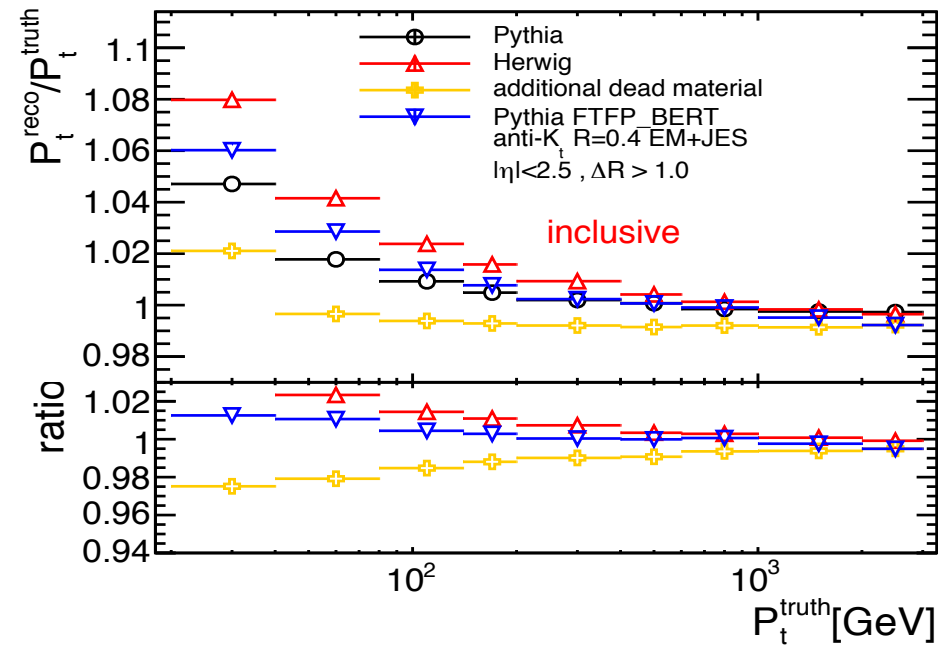
- mc12_8TeV.
l479l*.Pythia8_AU2CTl0_jetjet_JZ*W.merge.AOD.e1l
26_sl469_sl470_r3542_r3549/
->written with **Pythia**
- mc12_8TeV.
l59l*.Herwigpp_EE3CTEQ6LI_jetjet_JZ*W.merge.NTU
P_JETMET.e1373_sl499_sl504_r3658_r3549
->written with **Herwig**
- mc12_8TeV.
l479l*.Pythia8_AU2CTl0_jetjet_JZ*W.merge.NTUP_JE
TMET.e1l26_sl482_sl470_r3793_r3549_pl344/
->written with **additional dead material**
- mc12_8TeV.
l479*.Pythia8_AU2CTl0_jetjet_JZ*W.merge.NTUP_JET
MET.e1l26_sl625_sl622_r3658_r3549_pl344/
->written with **Pythia FTFP_BERT**

response of each flavor jet



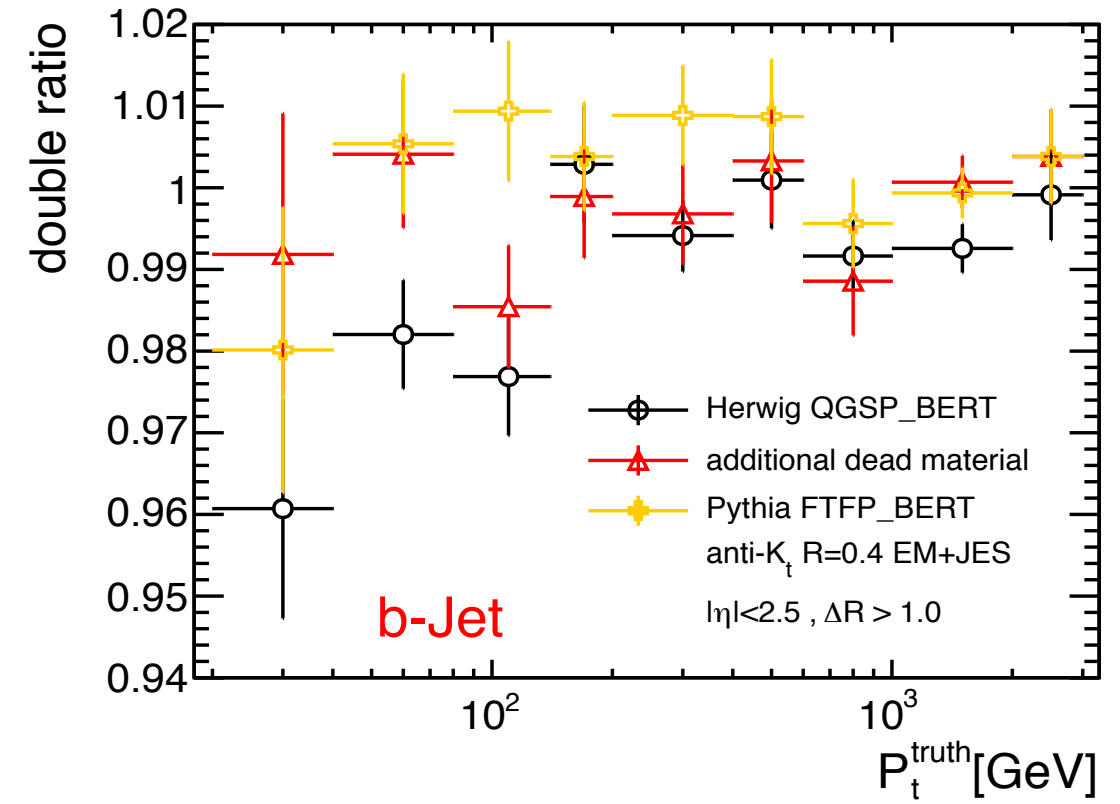
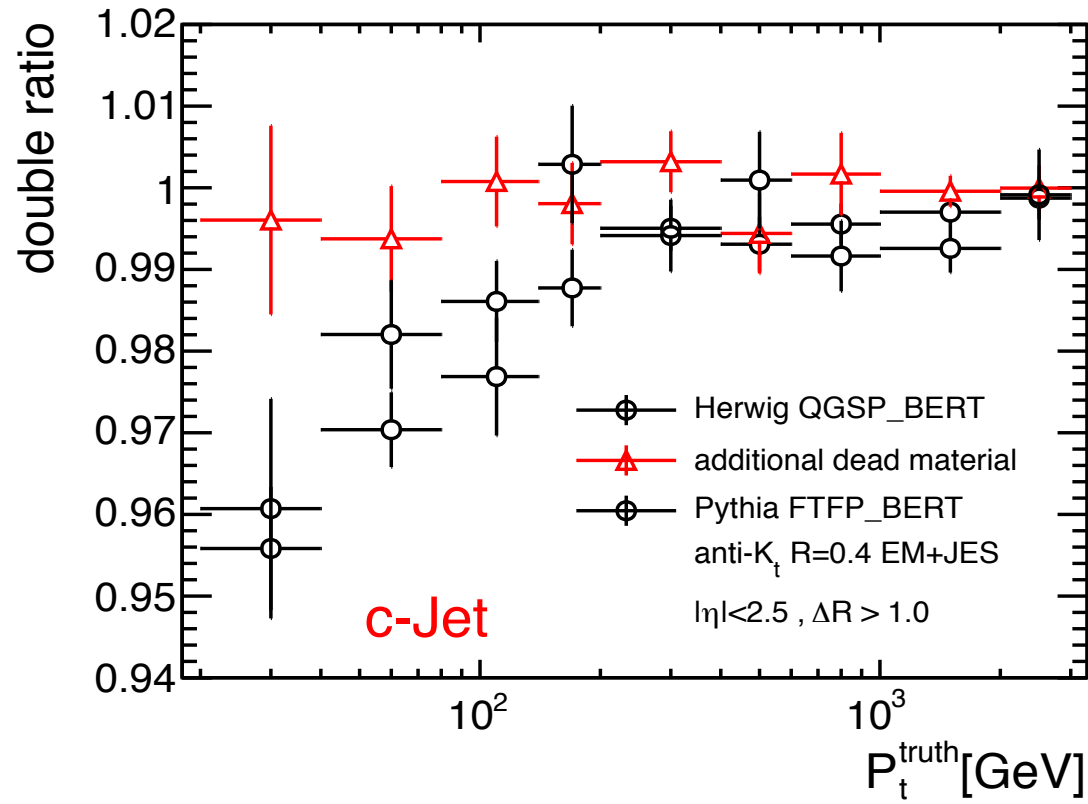
- At high P_t , heavy-jet response is lower than light-jet about all samples,
- But at low p_t , about Pythia, heavy-jet response is higher.

response of each MC samples



- denominator is response of Pythia

double ratio



- ratio of each flavor jet divided by ratio of inclusive jet.

result summary