

2cm PWO 2 GeV mu- 10⁵ events

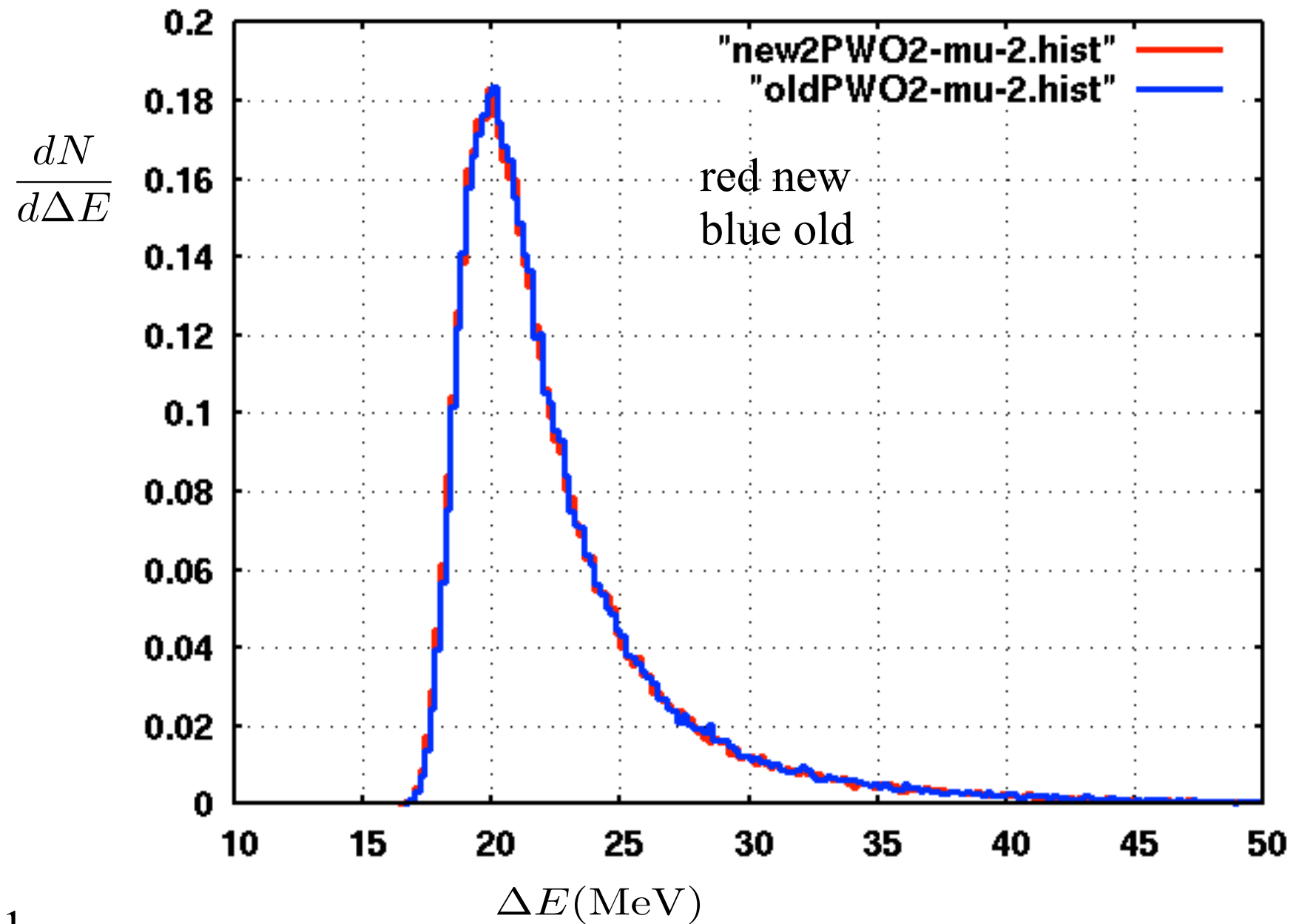


Fig.1

2cm PWO 150 GeV mu- 10^5 events

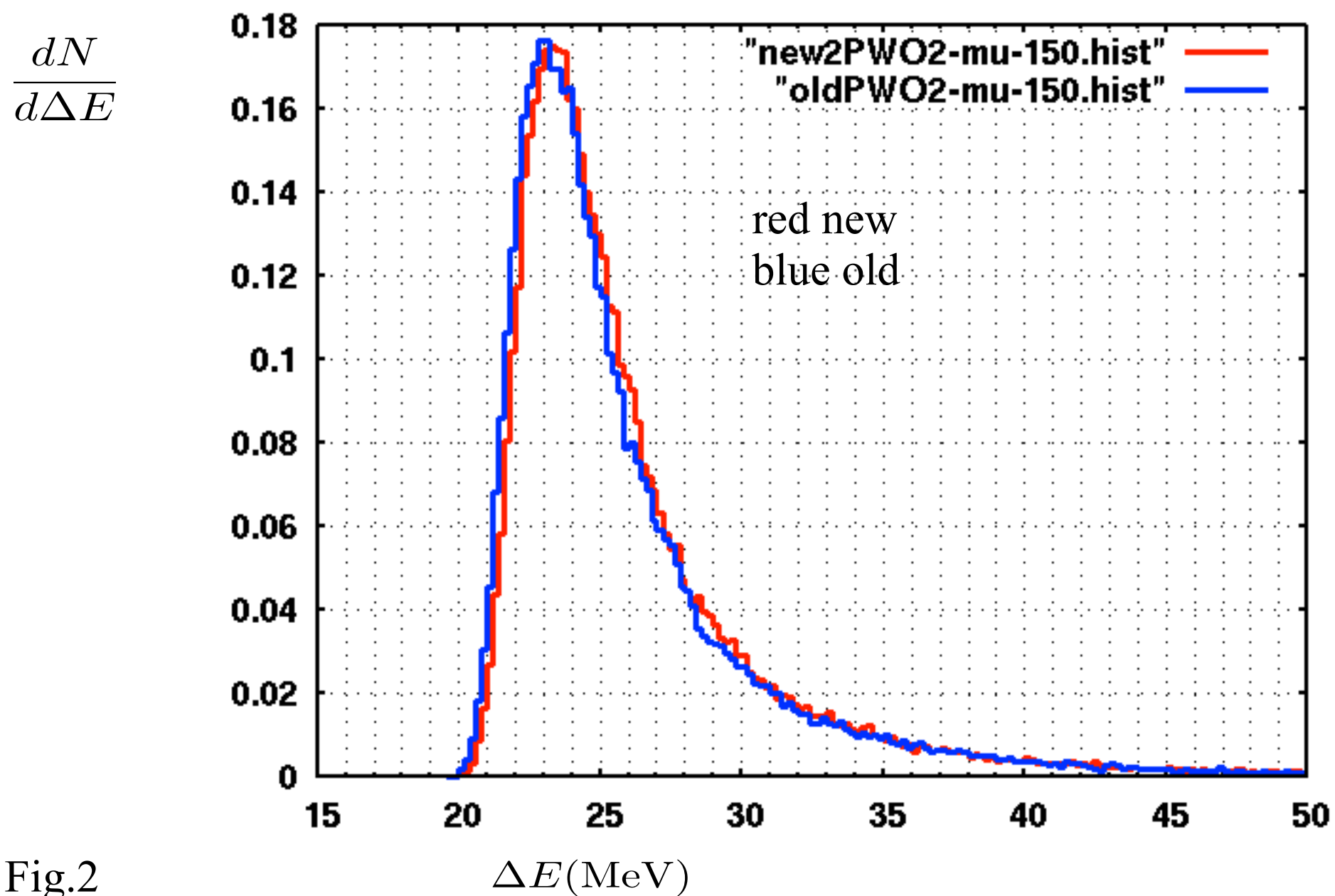


Fig.2

0.1cm PWO 2 GeV mu- 10⁵ events

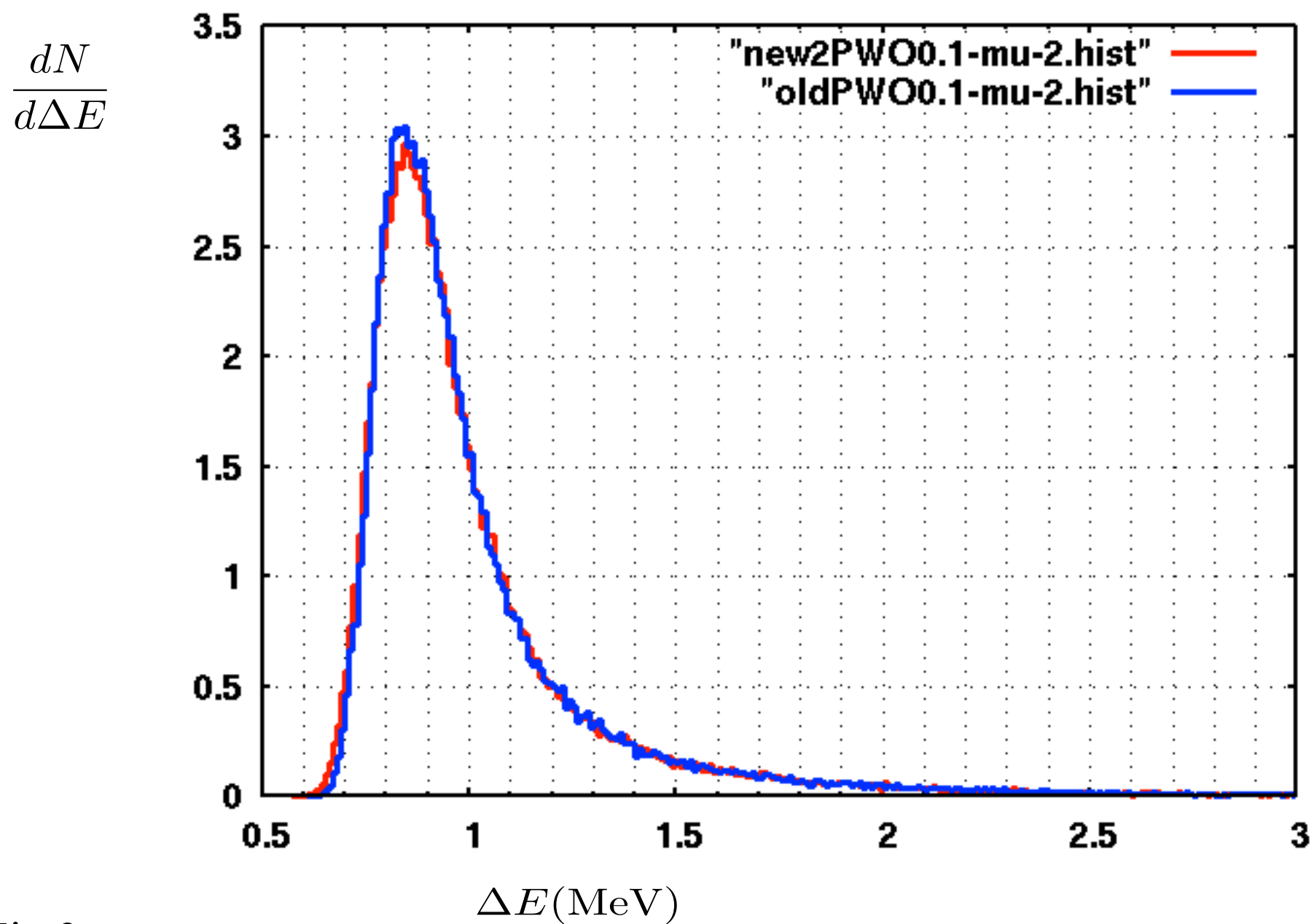


Fig.3

0.1cm PWO 150 GeV mu- 10⁵ events

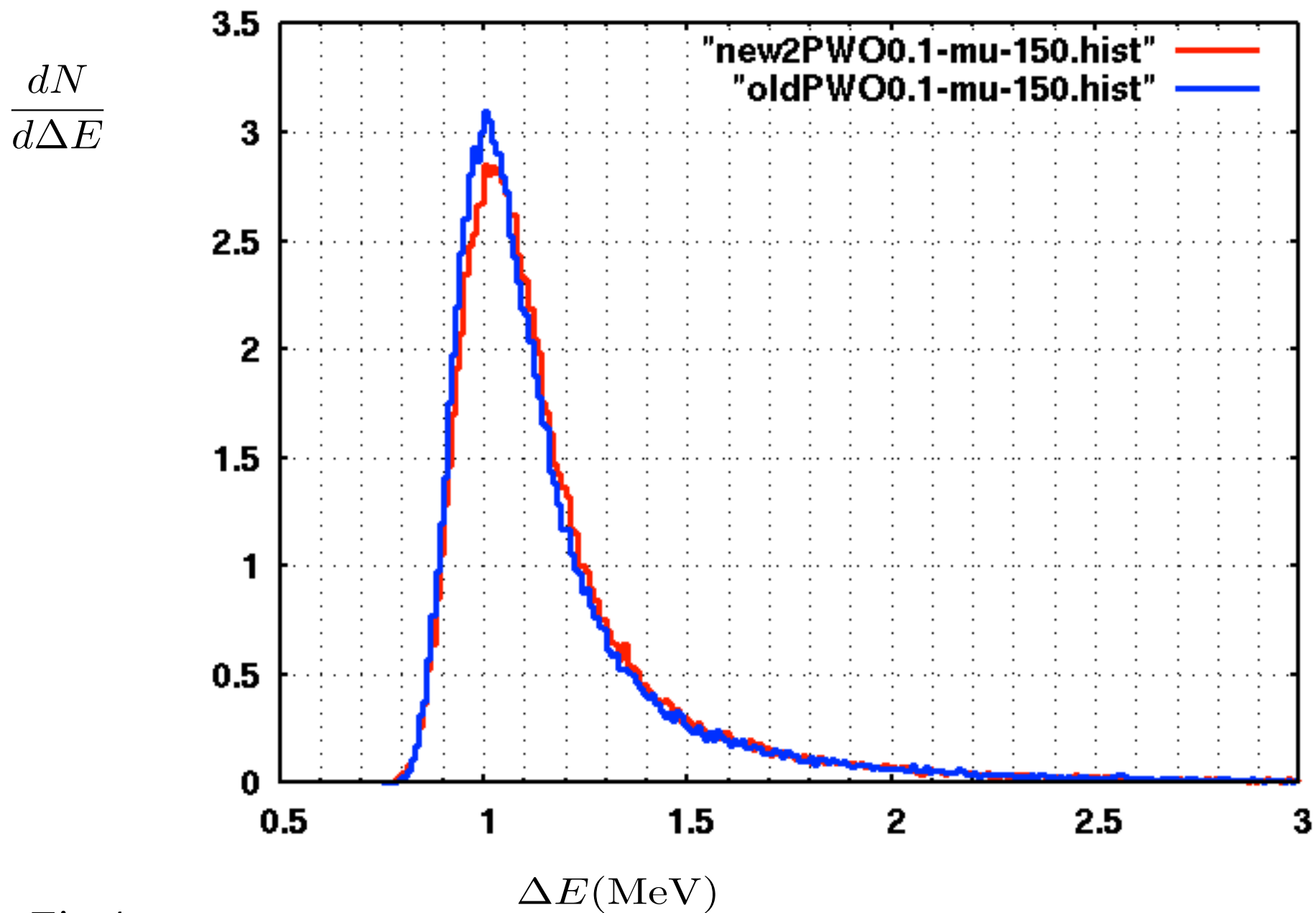


Fig.4

2 cm BGO 2 GeV mu- 10⁵ events

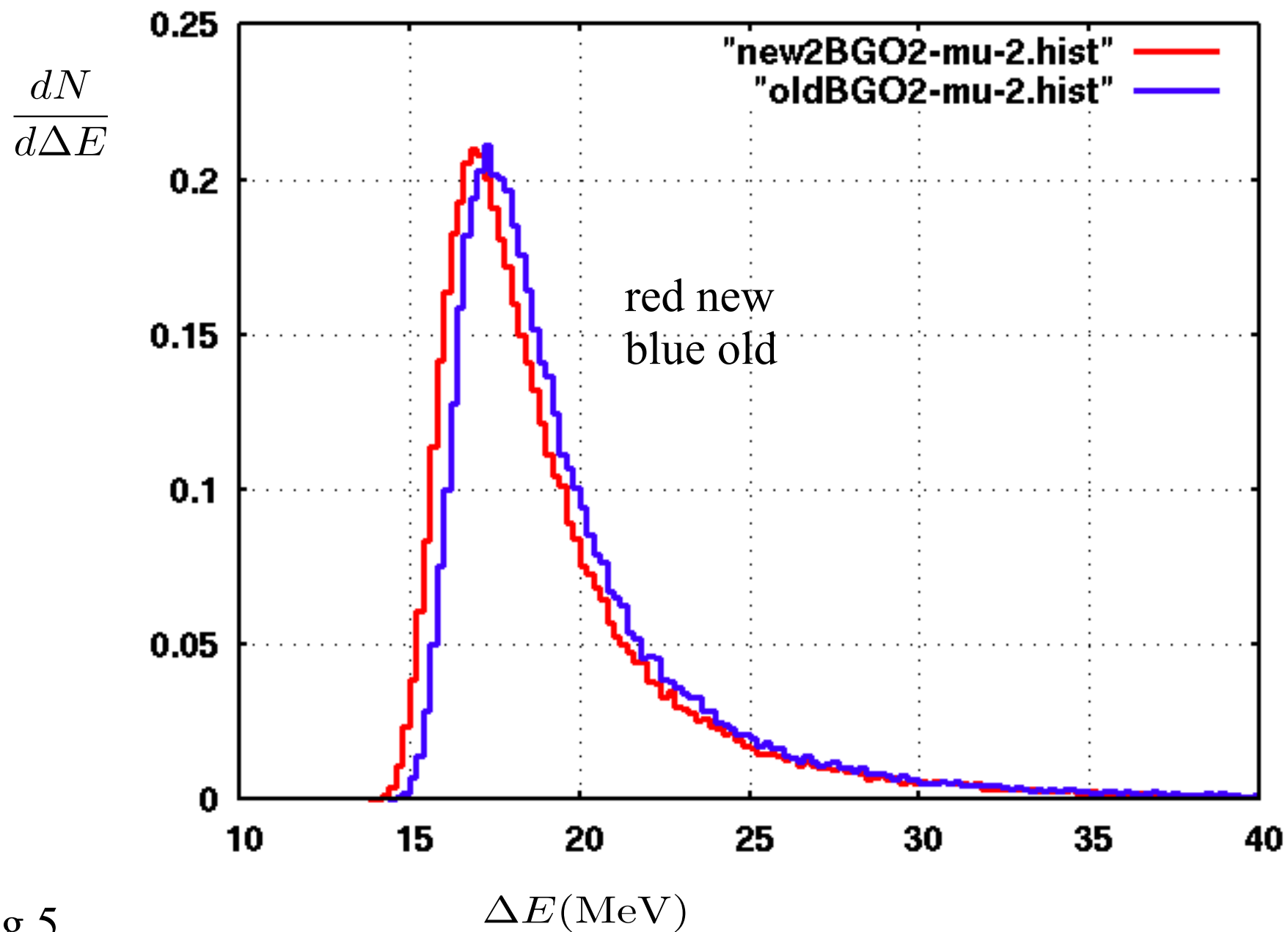


Fig.5

2 cm BGO 150 GeV mu- 10⁵ events

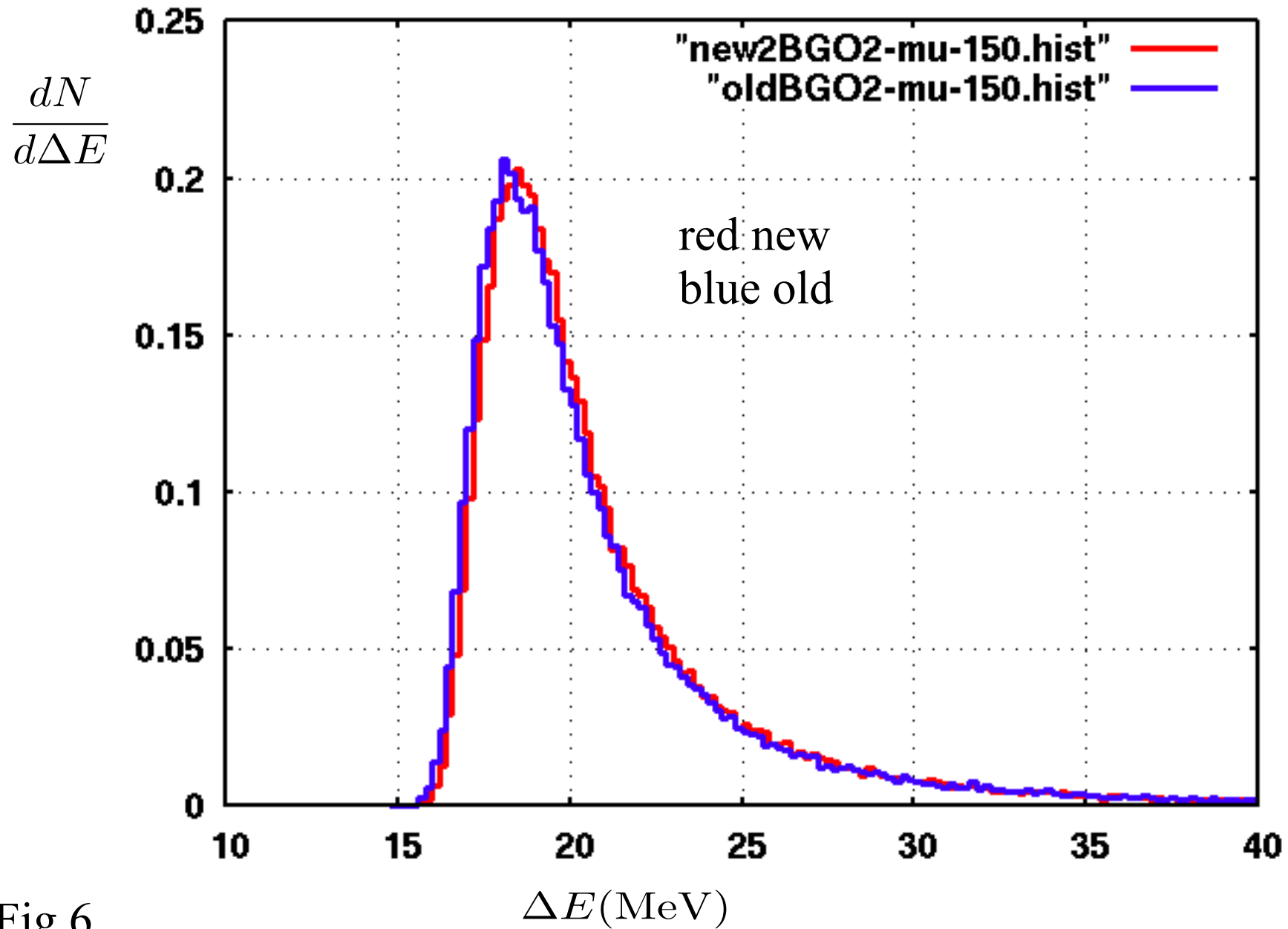


Fig.6

Energy loss in 1 cm SCIN. mu- 150 GeV vertical
incident 100000 events

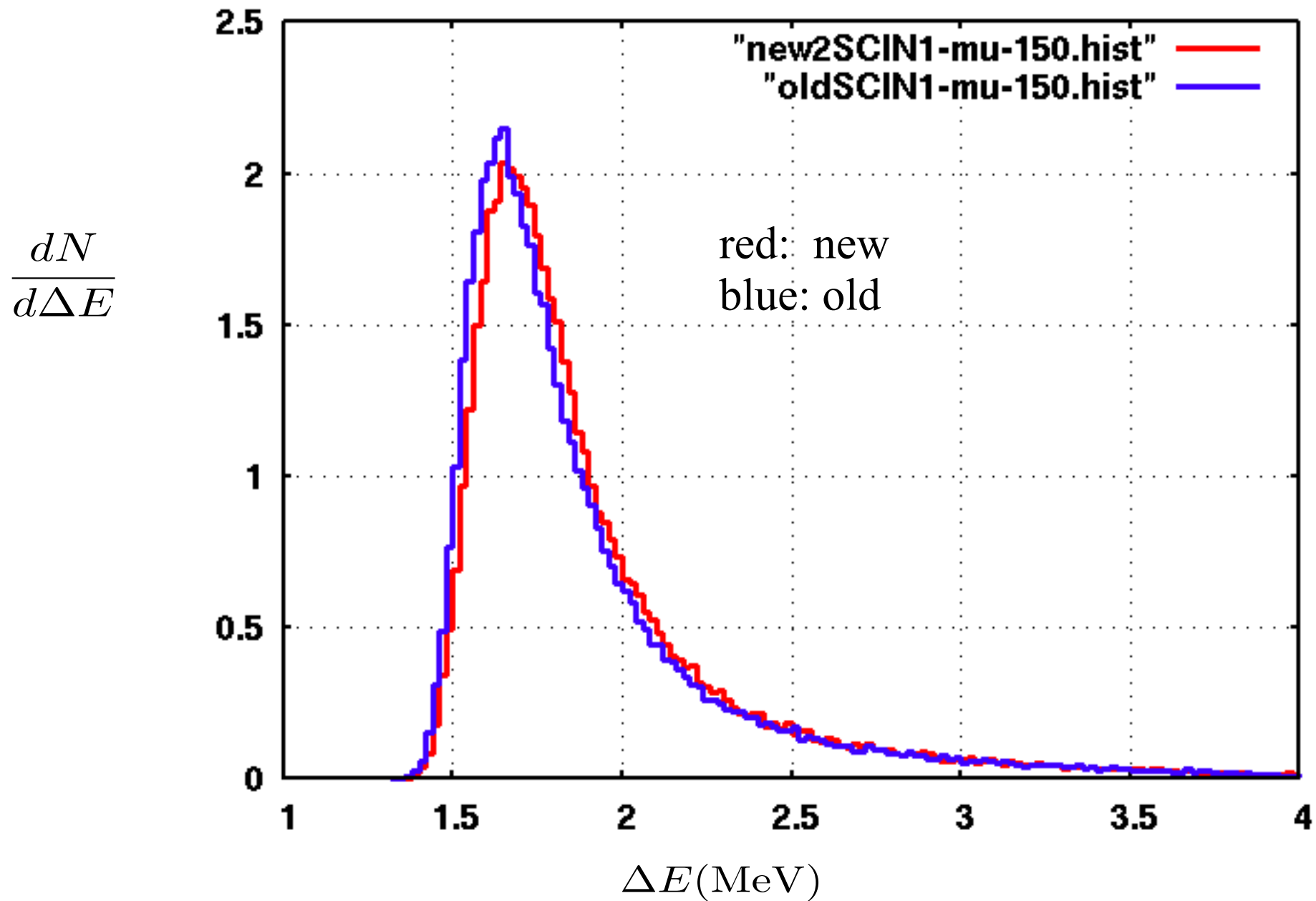


Fig.7

Energy loss in 1cm SCIN. mu- 2 GeV vertical incident
100000 events

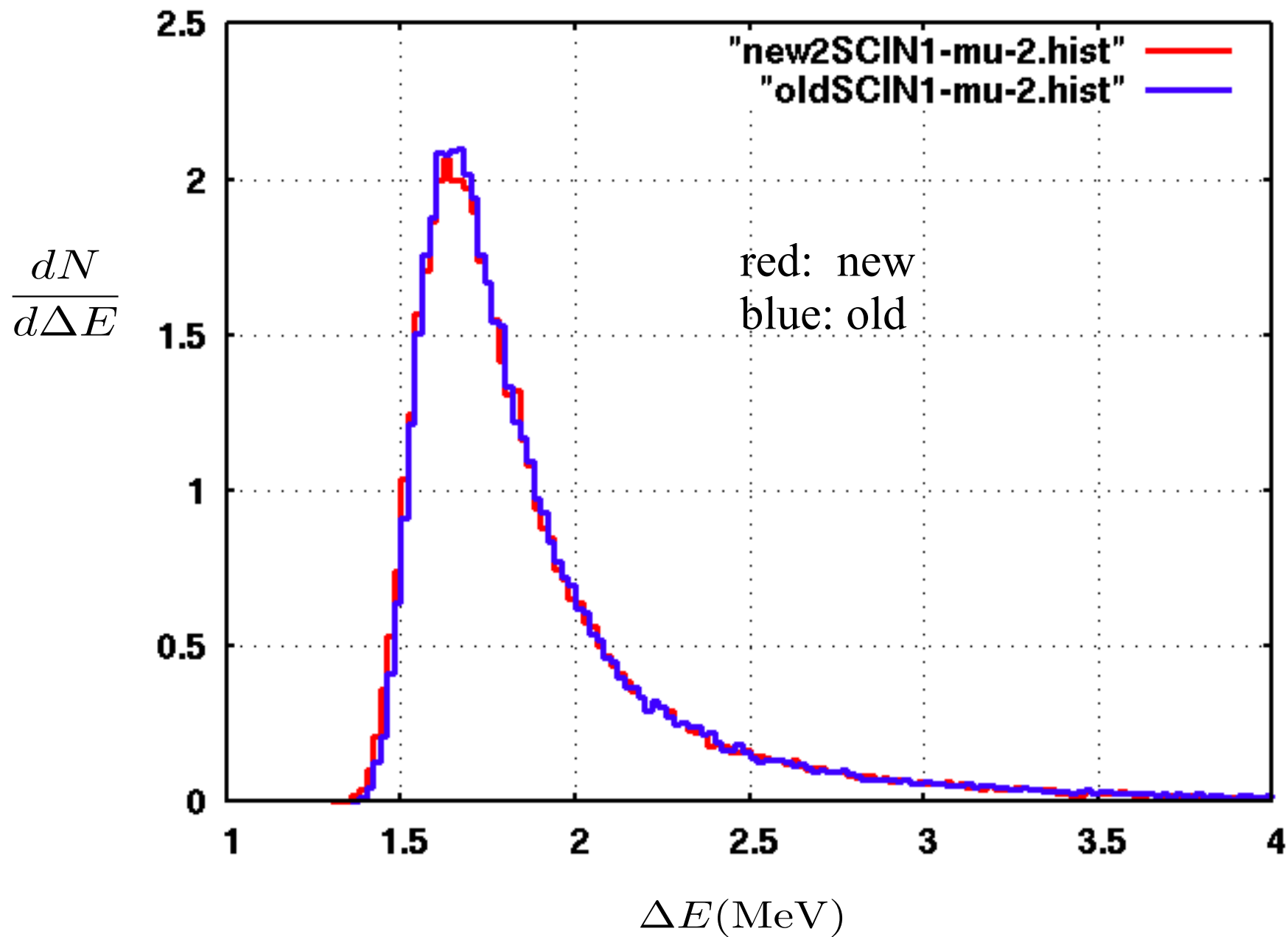


Fig.8

0.5cm PWO e- 10 GeV

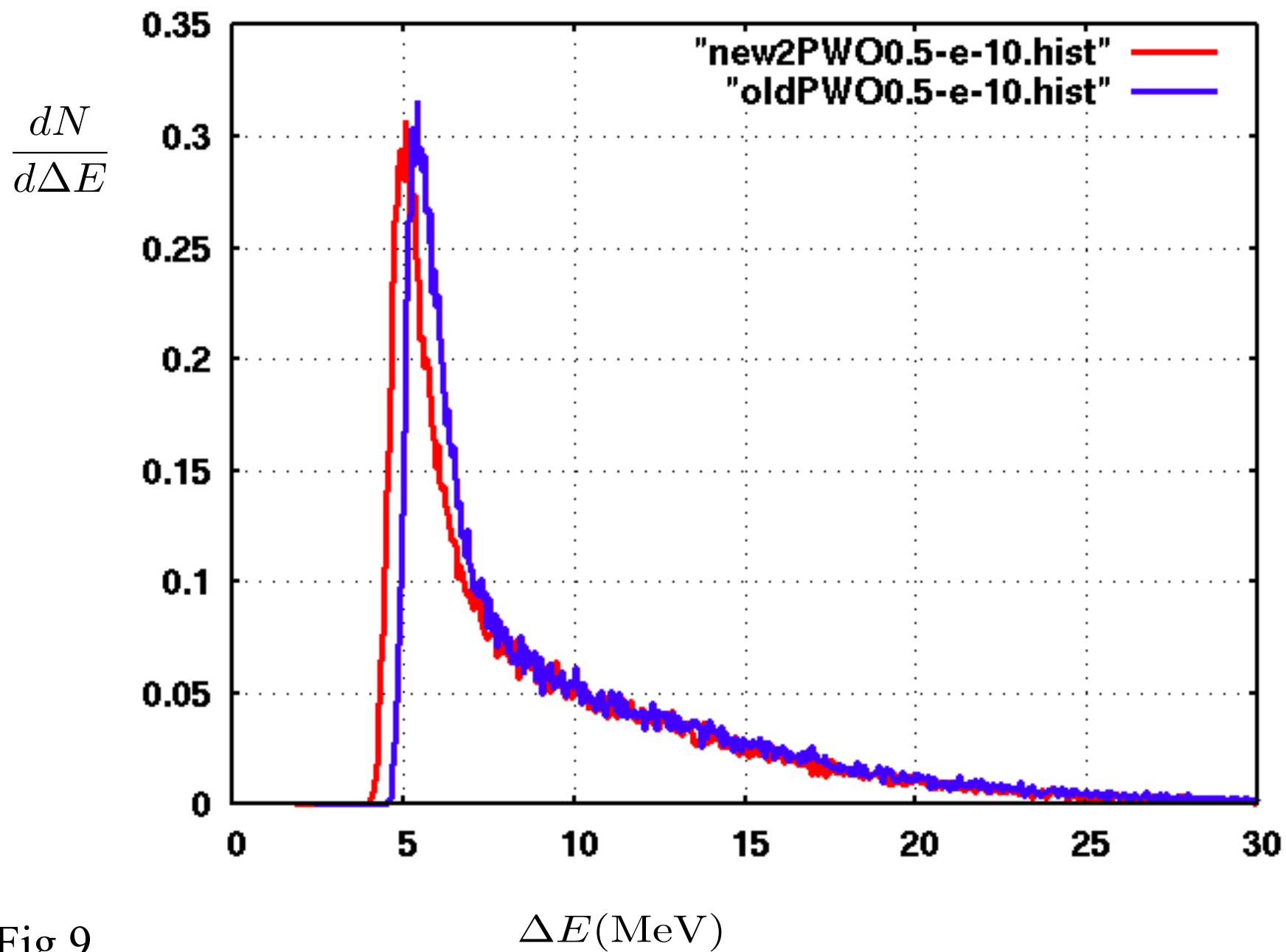


Fig.9

0.1cm PWO 100 MeV e- 10⁵ events

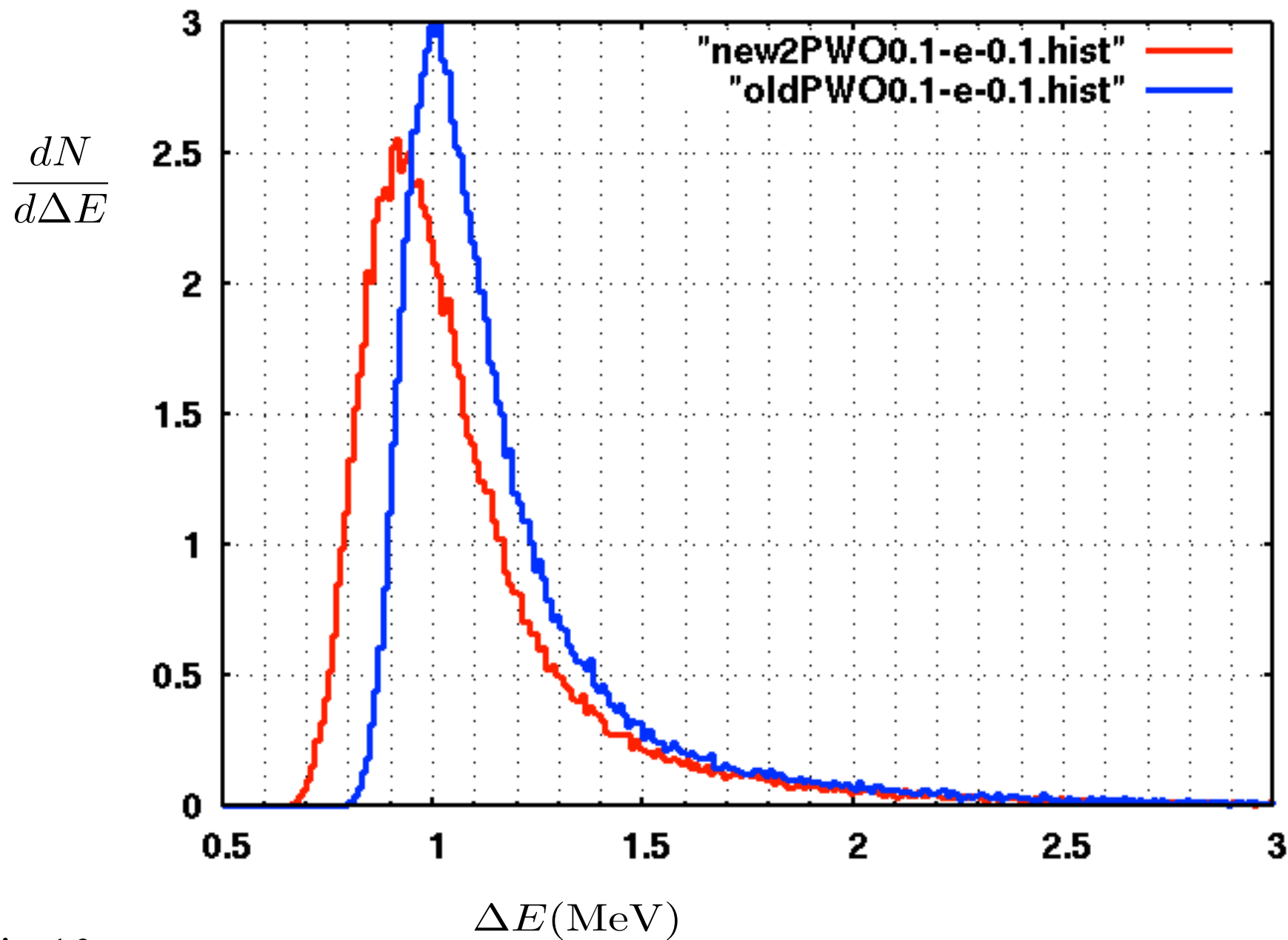


Fig.10

0.1cm PWO 10 GeV e- 10⁵ events

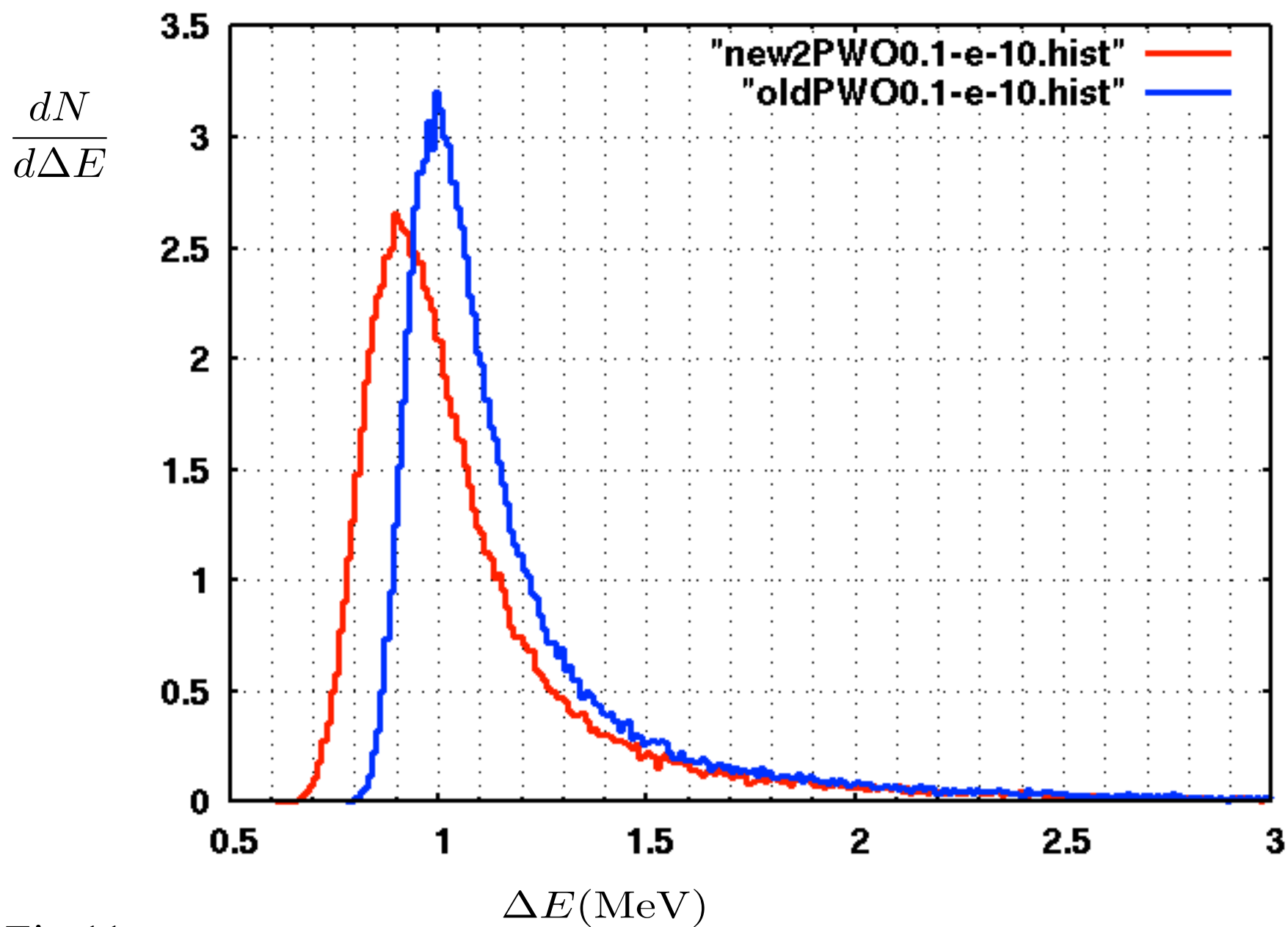


Fig.11

2 cm PWO 10 GeV e- 10⁵ events

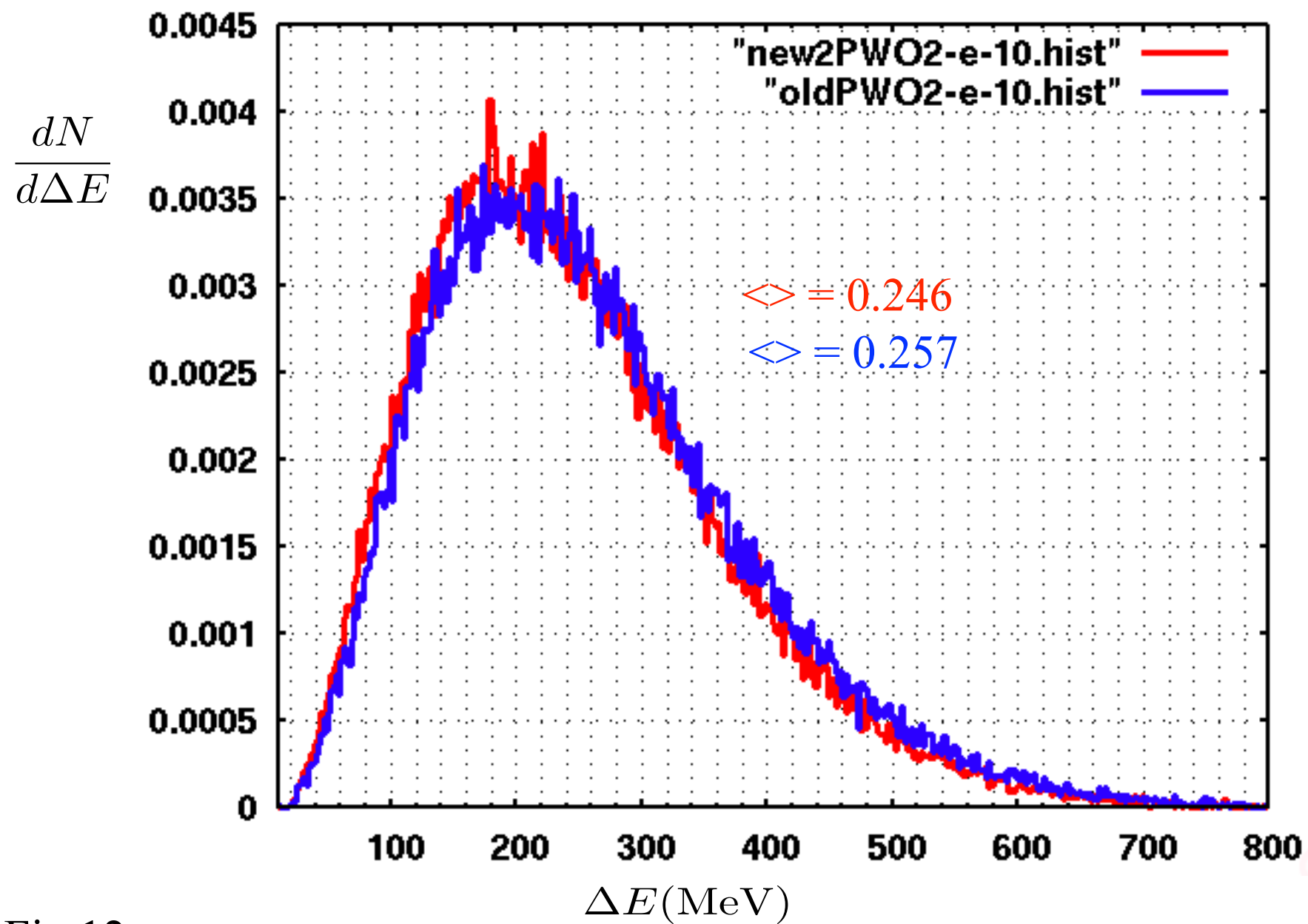


Fig.12

W +SciFi + Scin as LHCf config
(config2cmT in UserHook/Test)

100GeV e-
1000 events

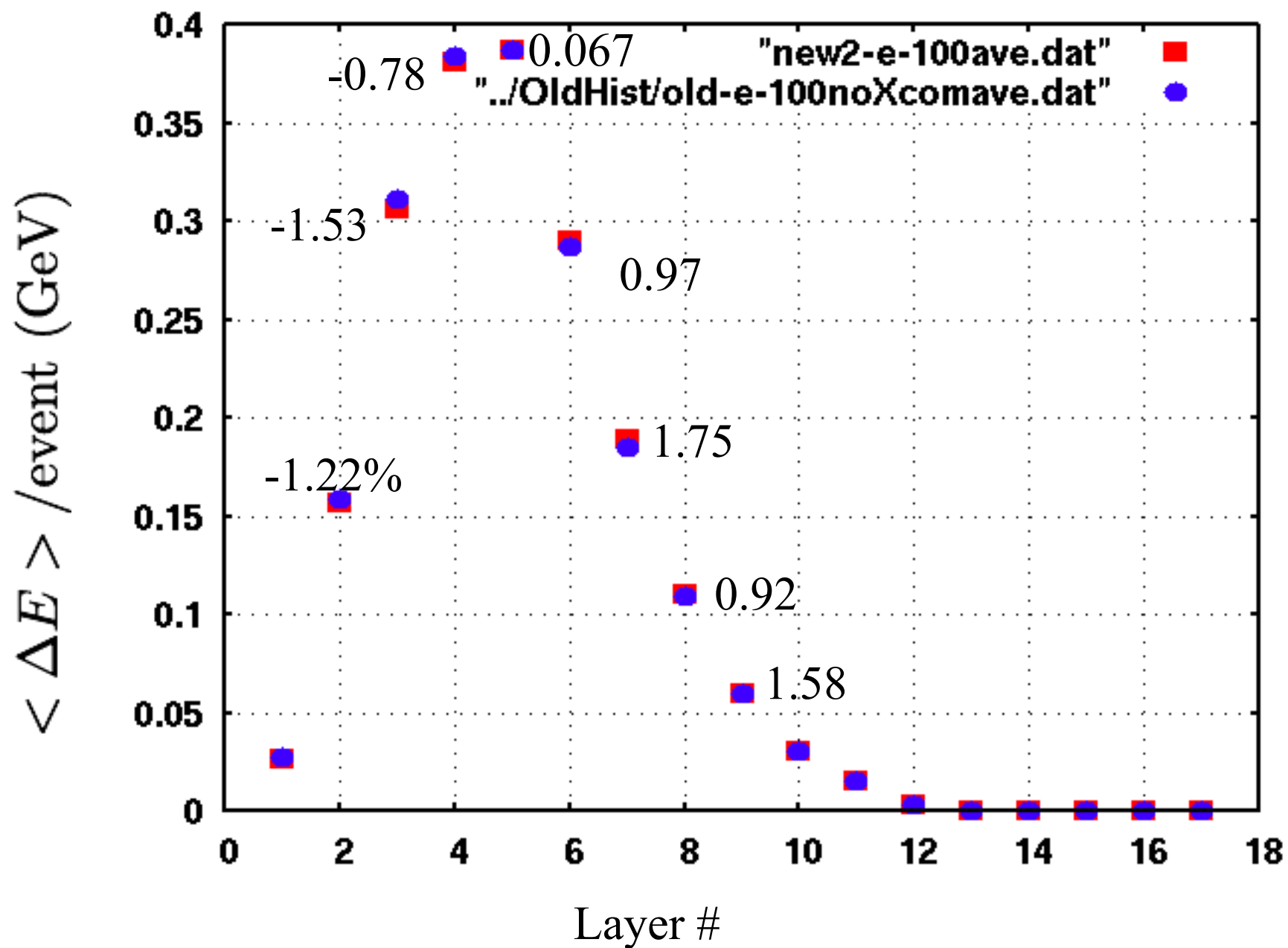


Fig.13

In log scale

W +SciFi + Scin as LHCf config
(config2cmT in UserHook/Test)

100GeV e-
1000 events

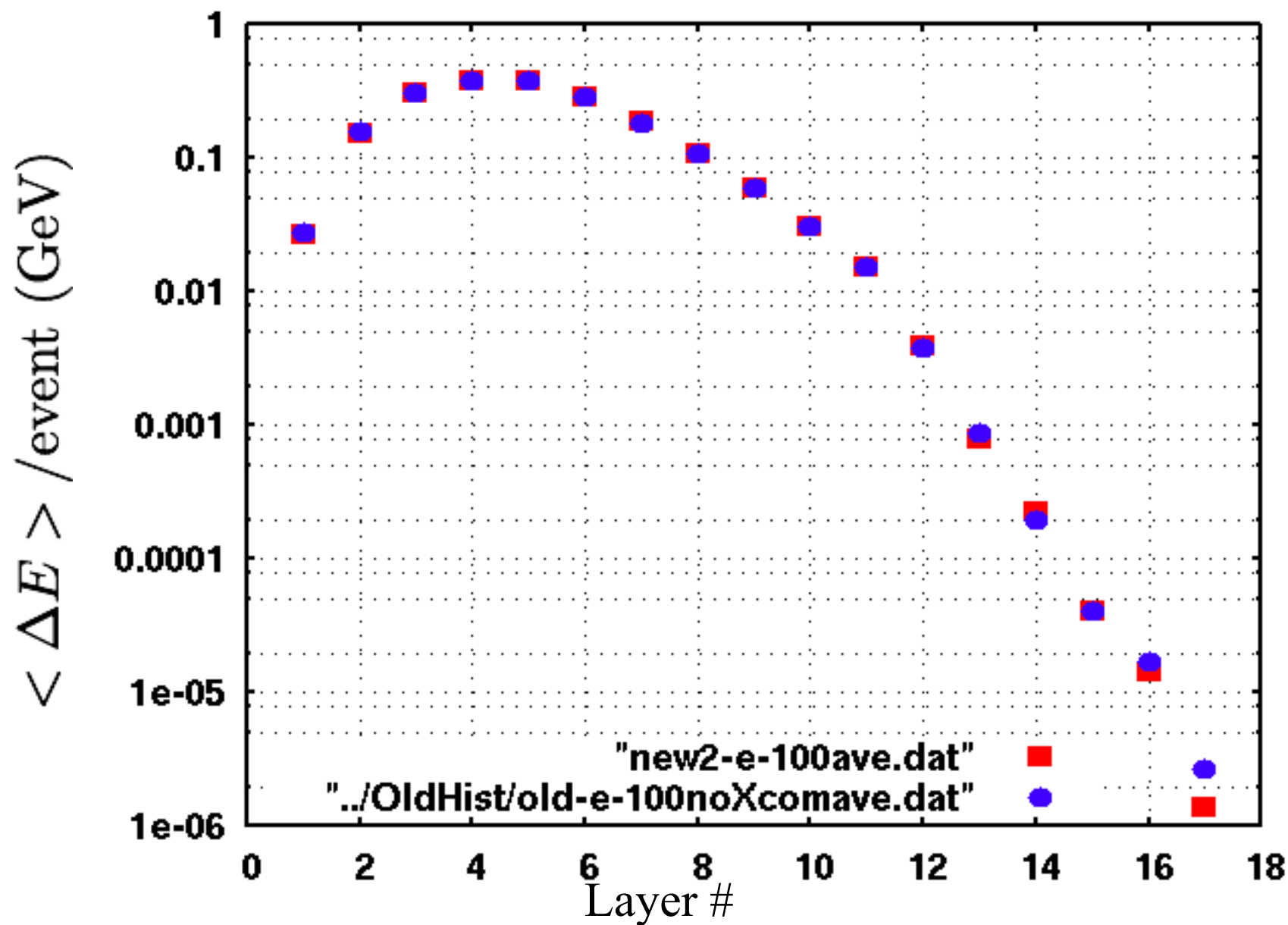


Fig.14

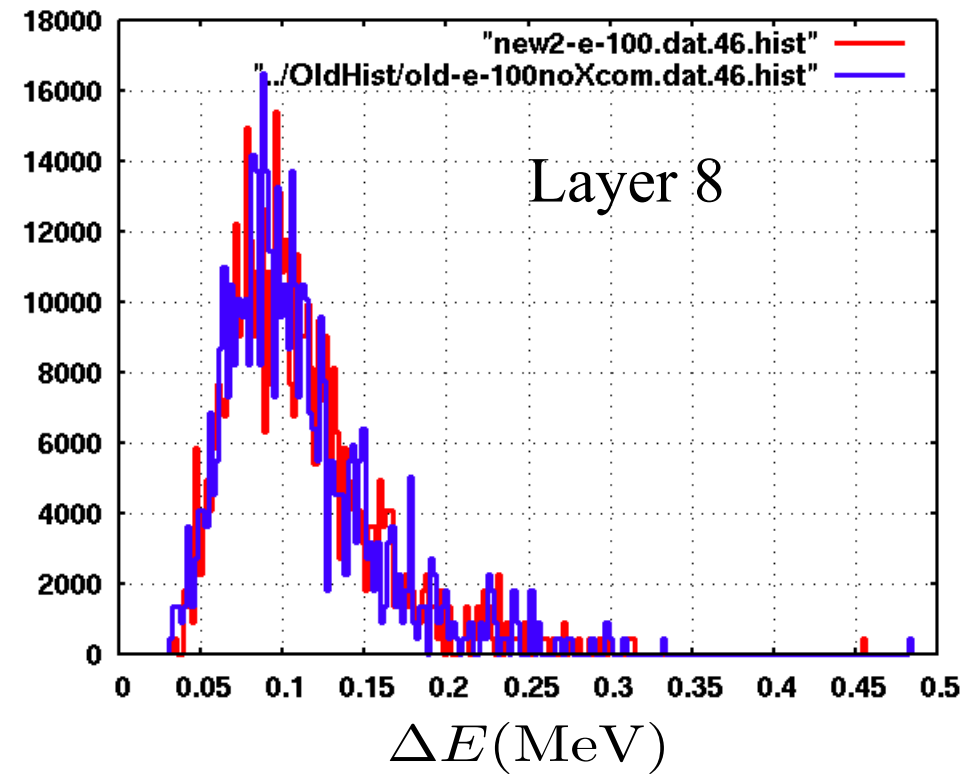
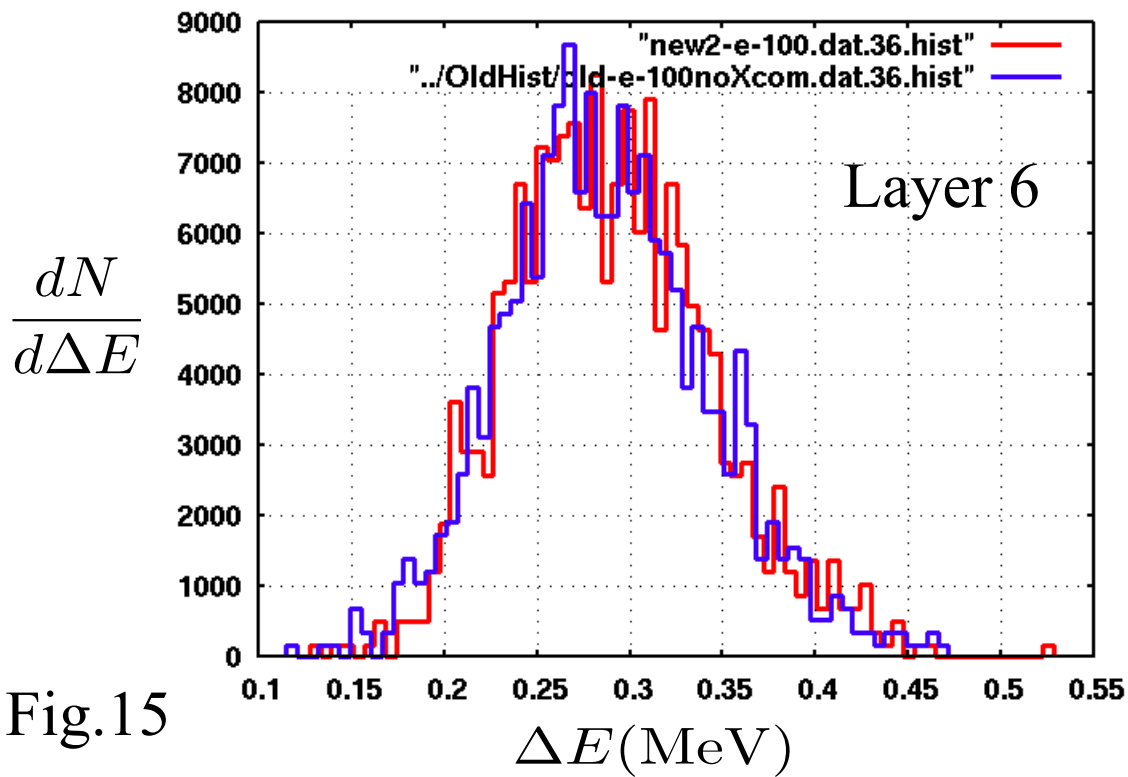
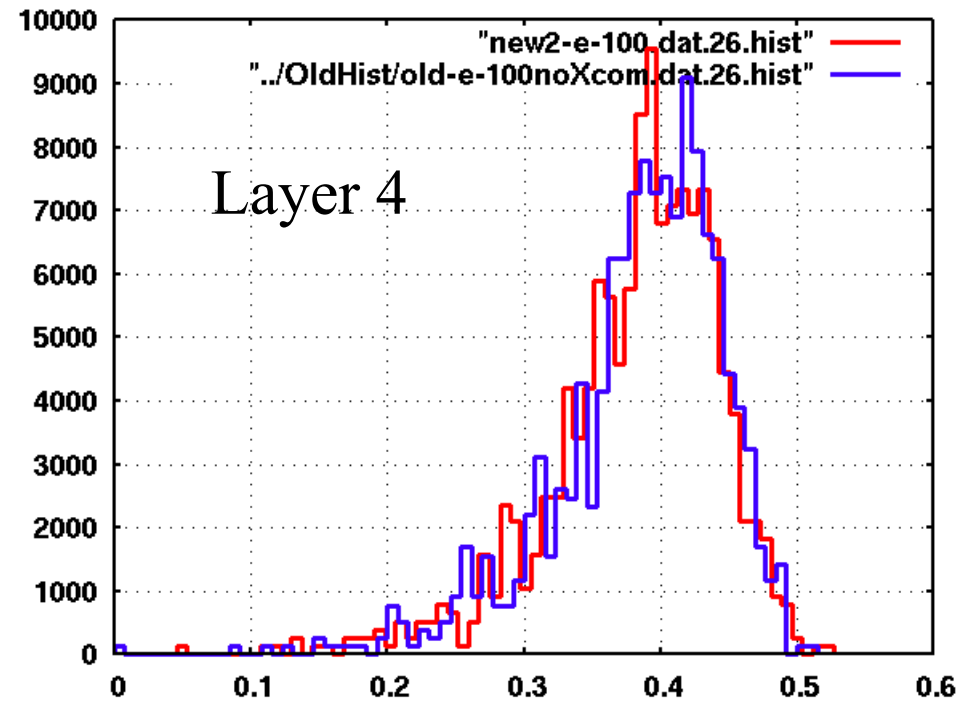
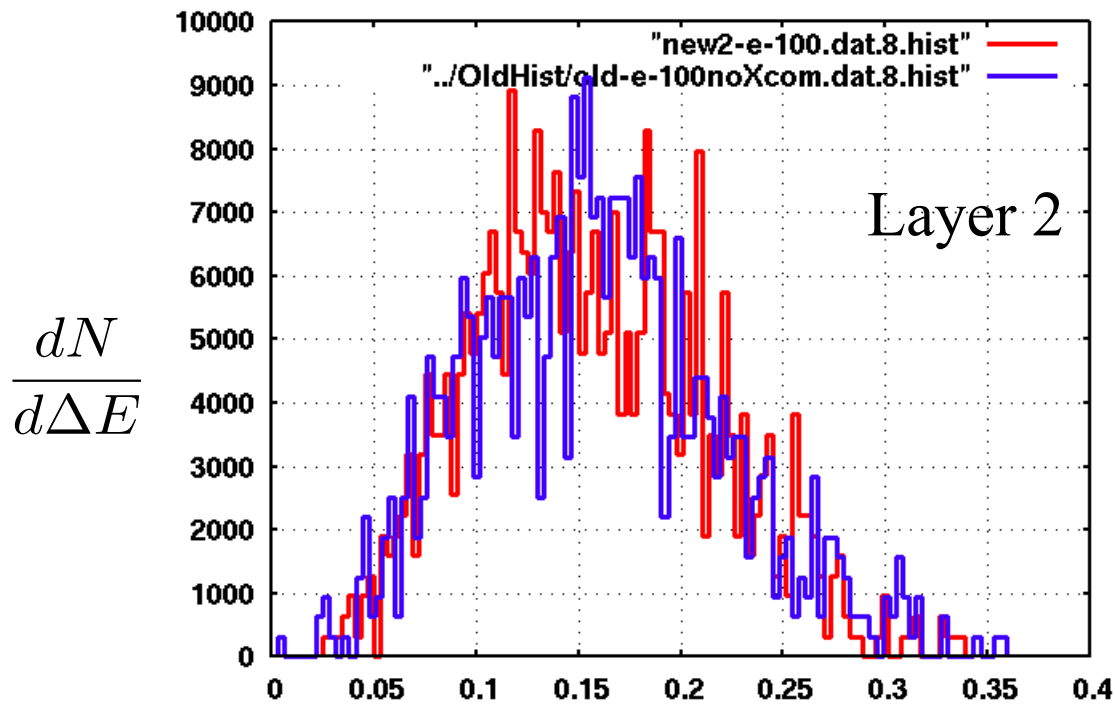


Fig.15

Calorimetric Energy

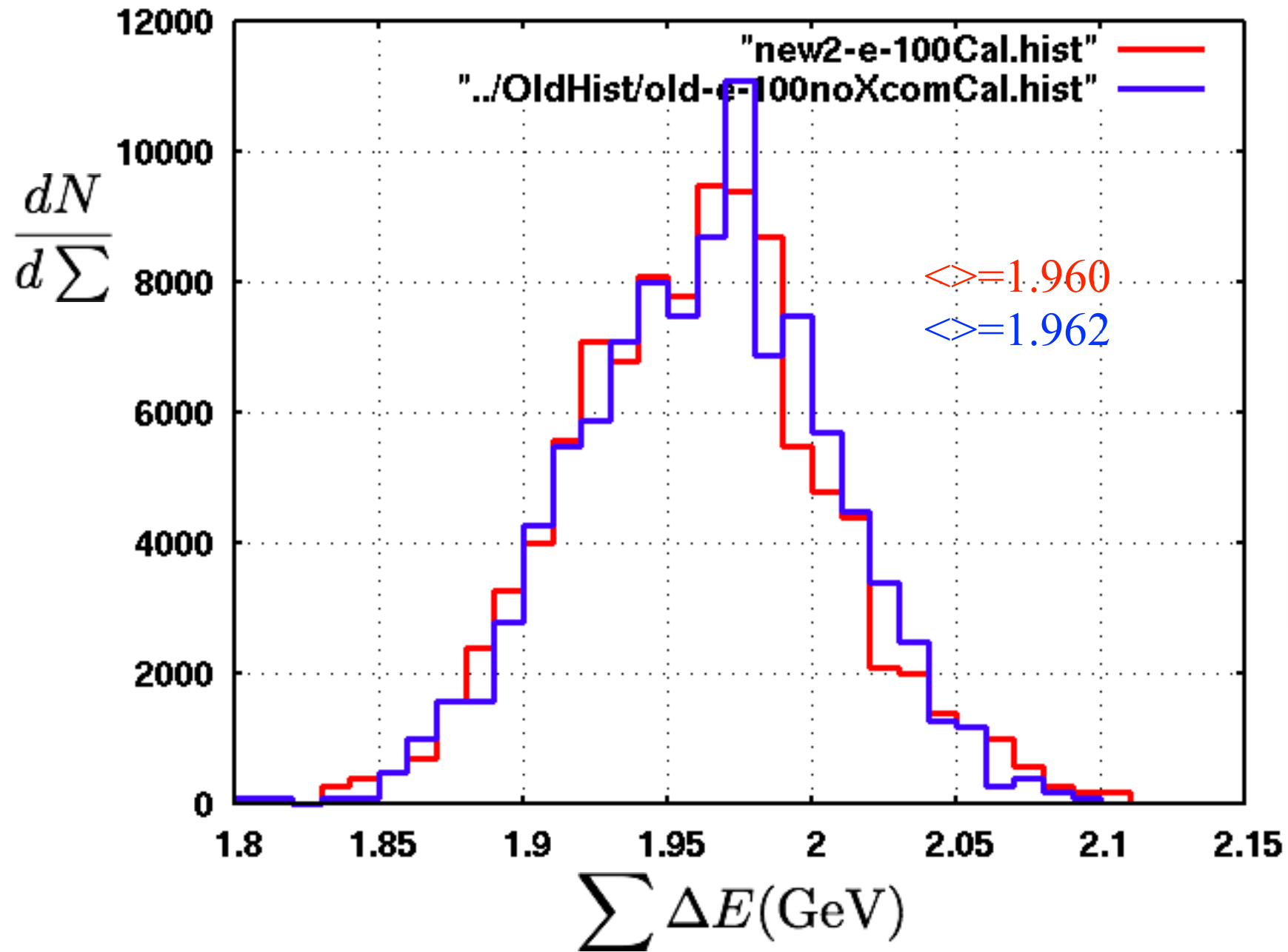


Fig.16

W +SciFi + Scin as LHCf config
(config2cmT in UserHook/Test)

100GeV **gamma**
1000 events

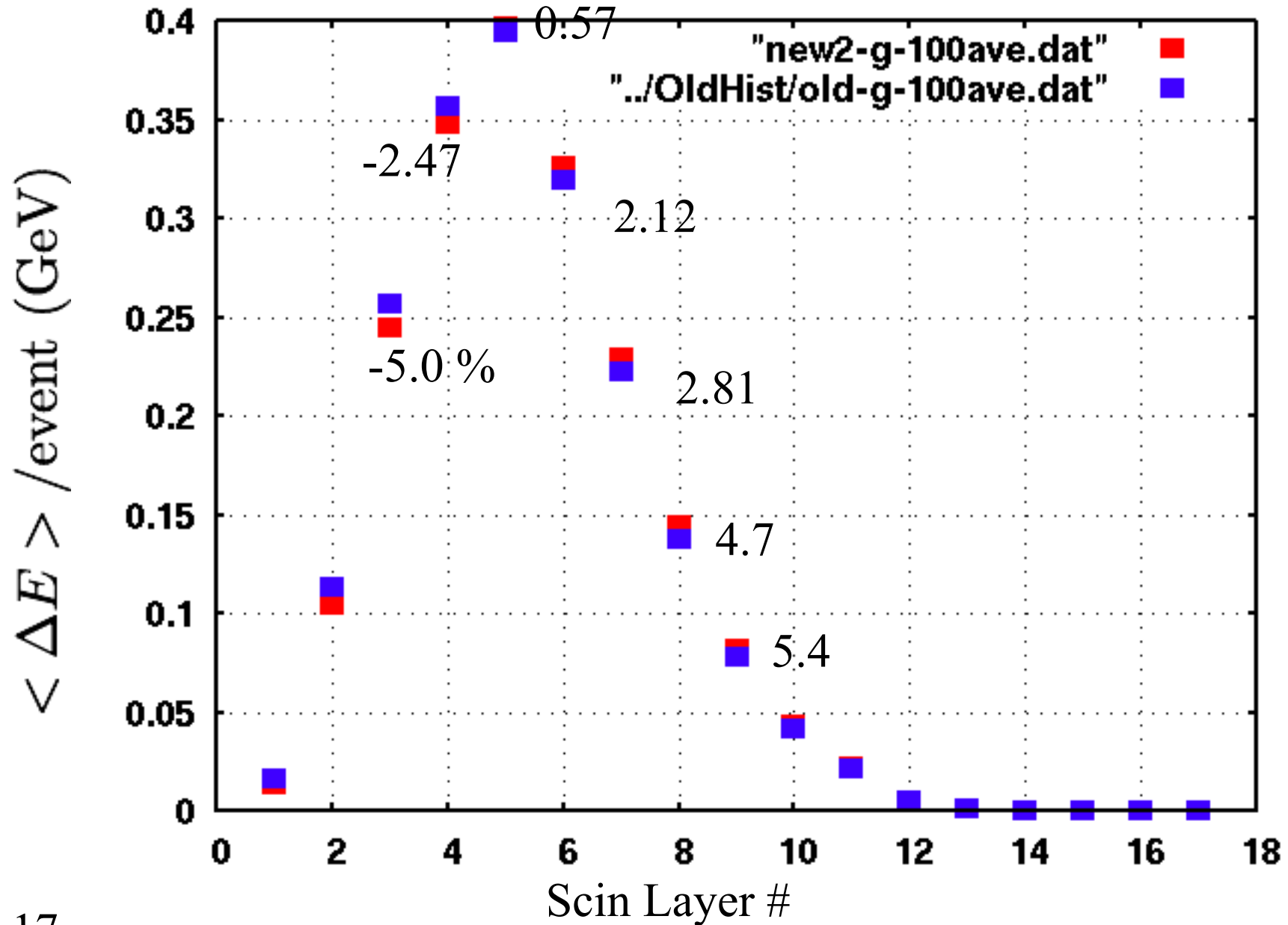


Fig.17

in log scale

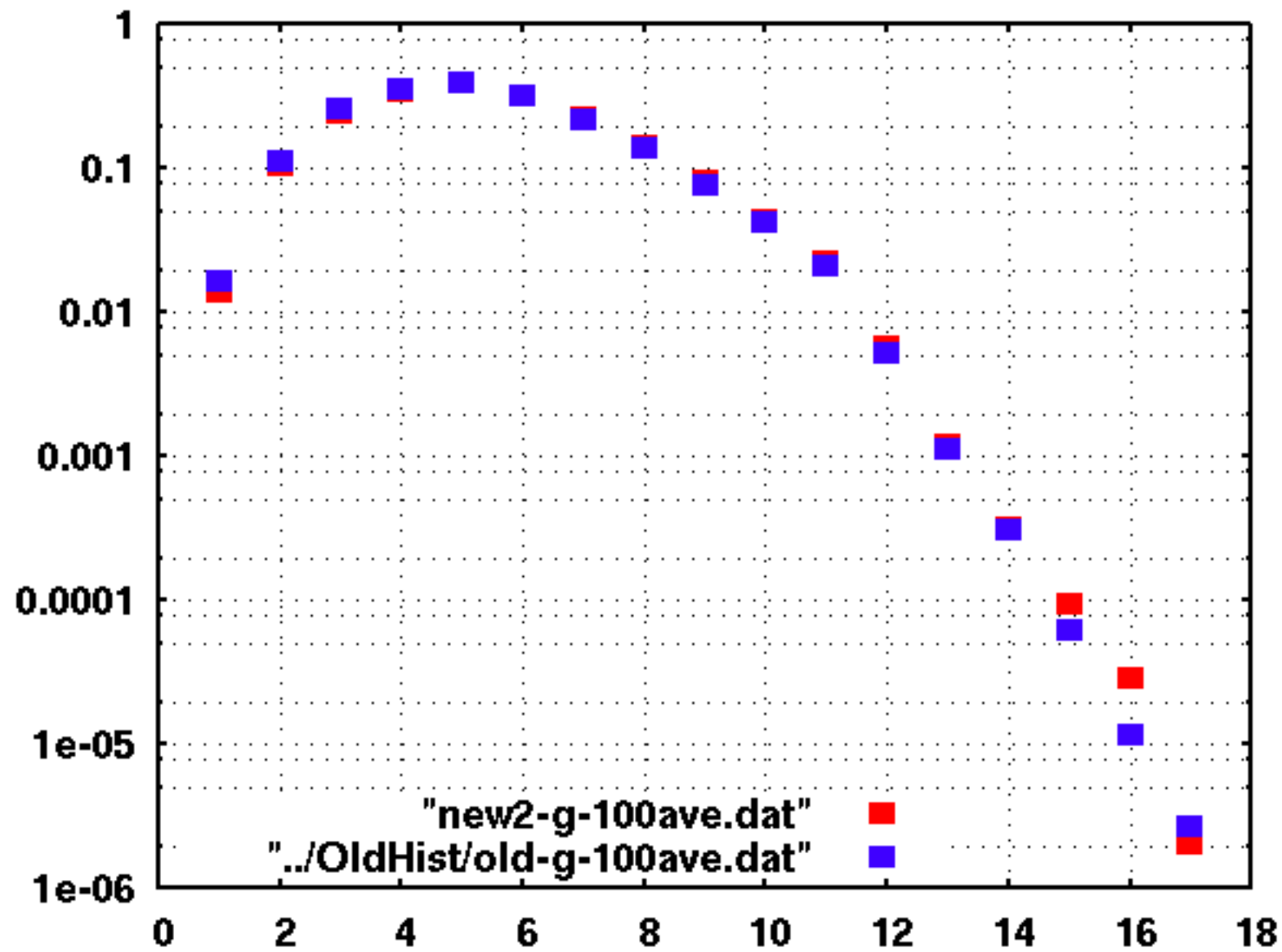


Fig.18

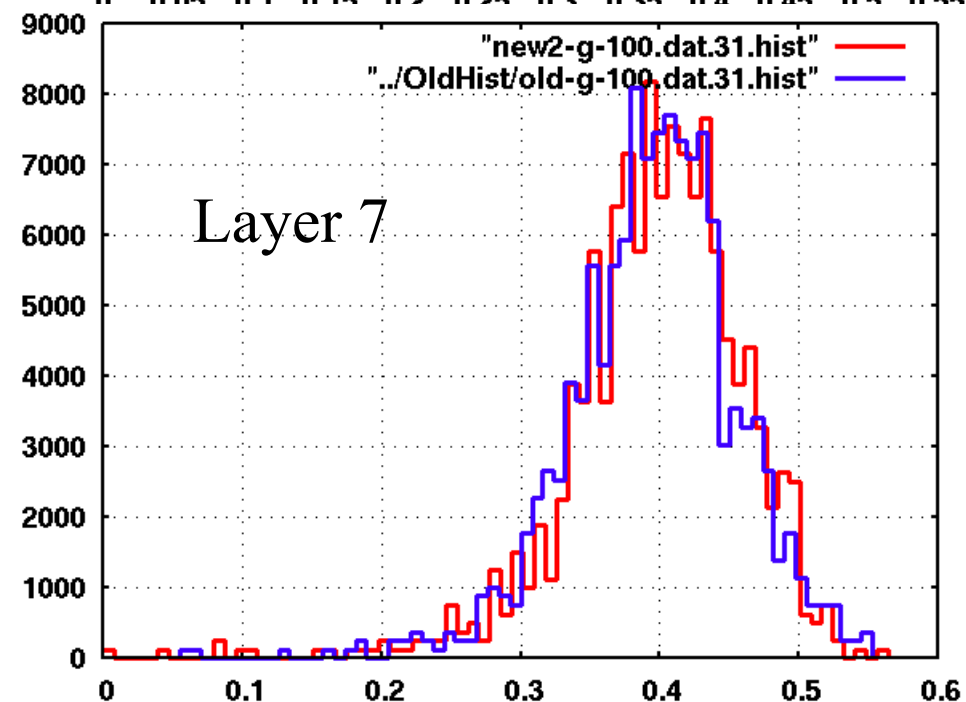
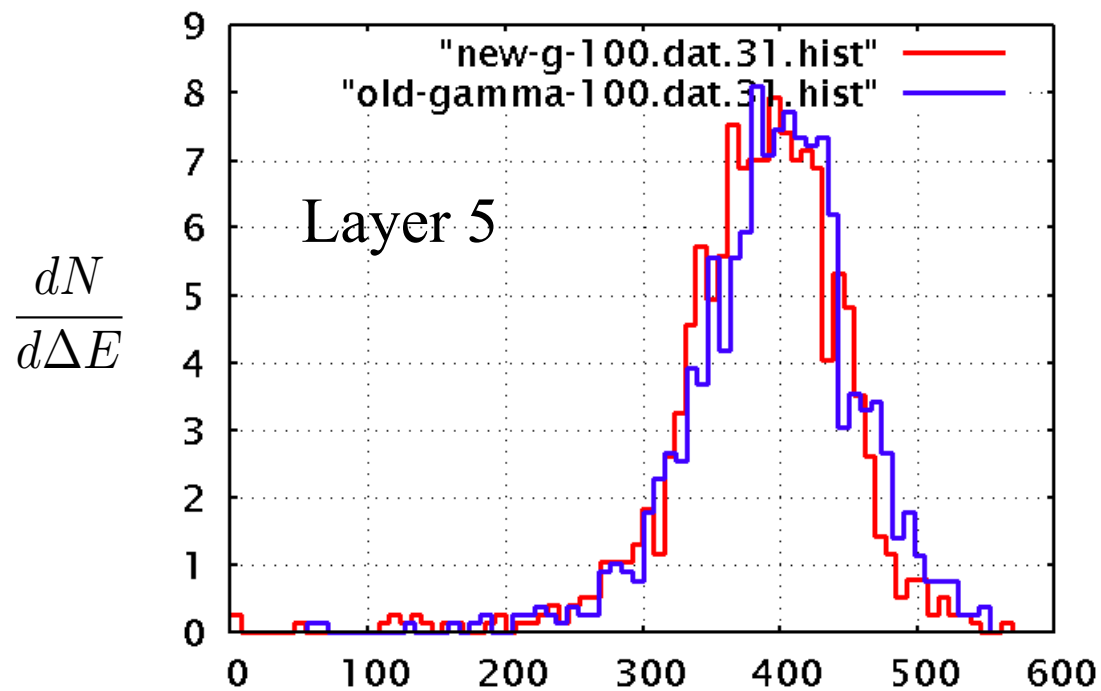
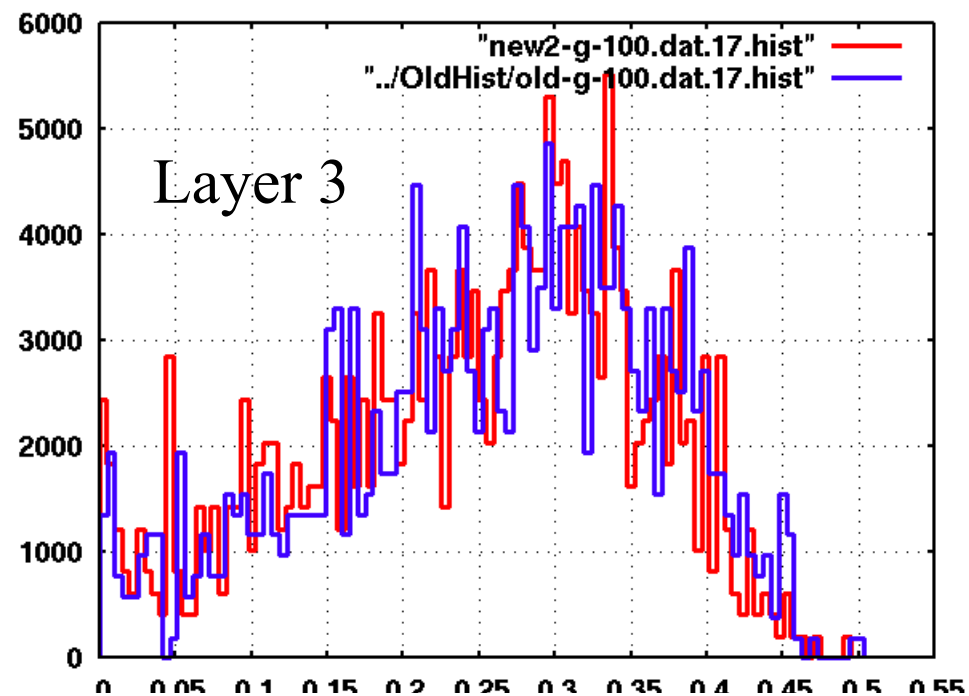
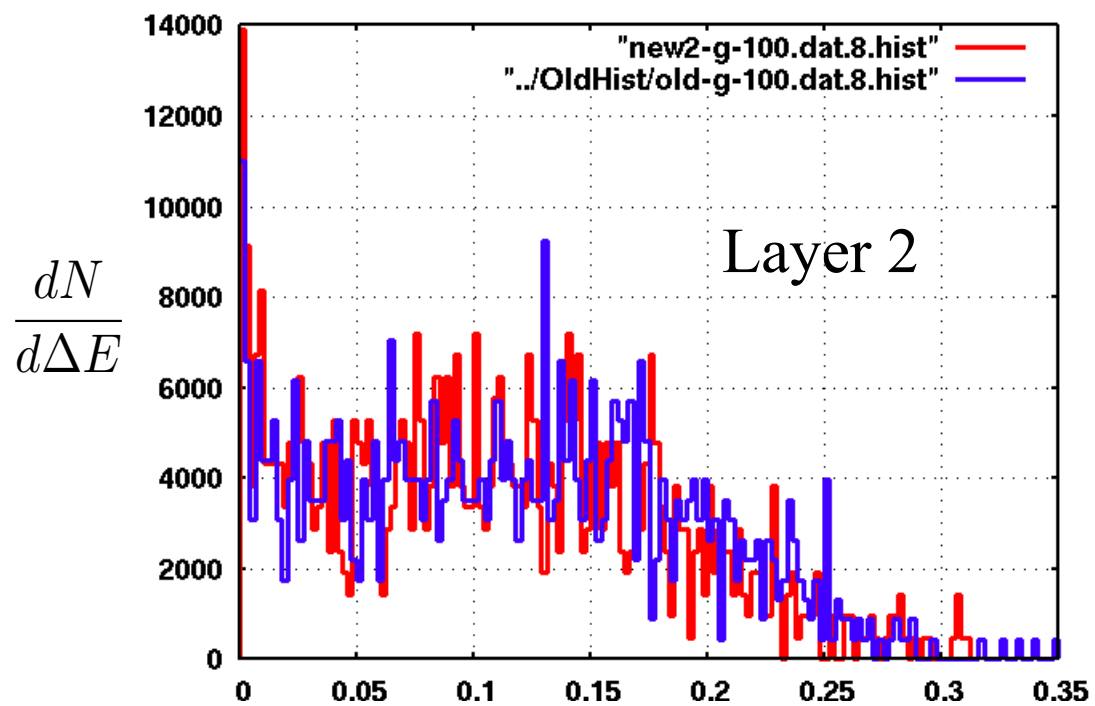


Fig.19

ΔE (GeV)

ΔE (GeV)

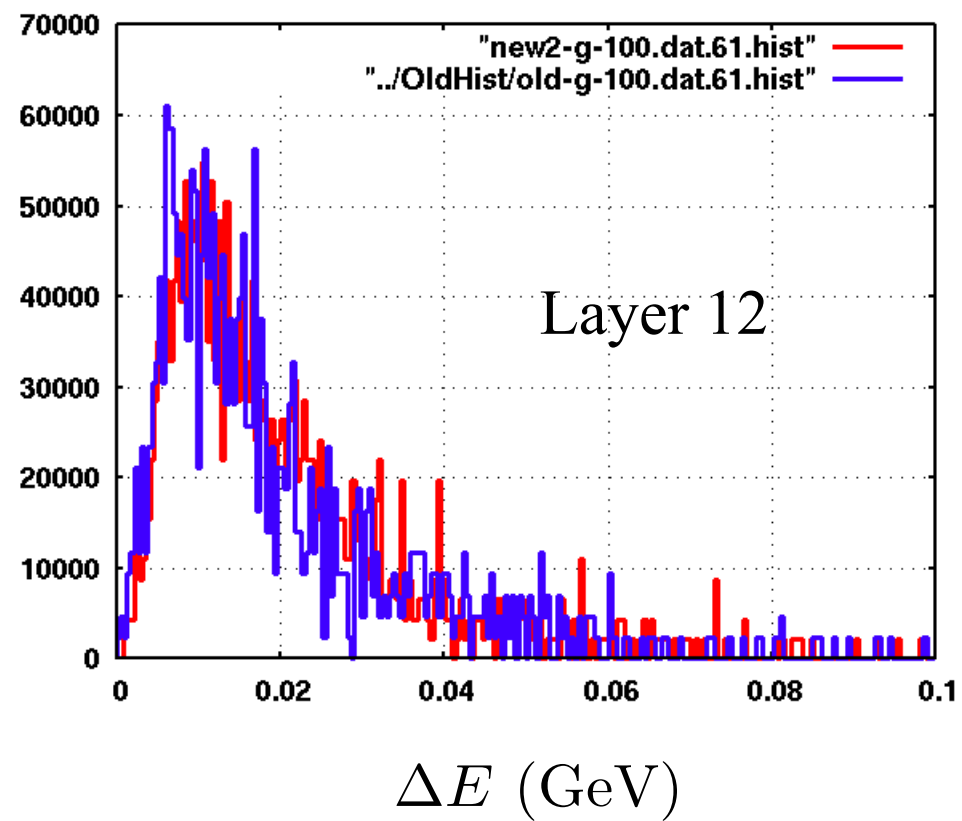
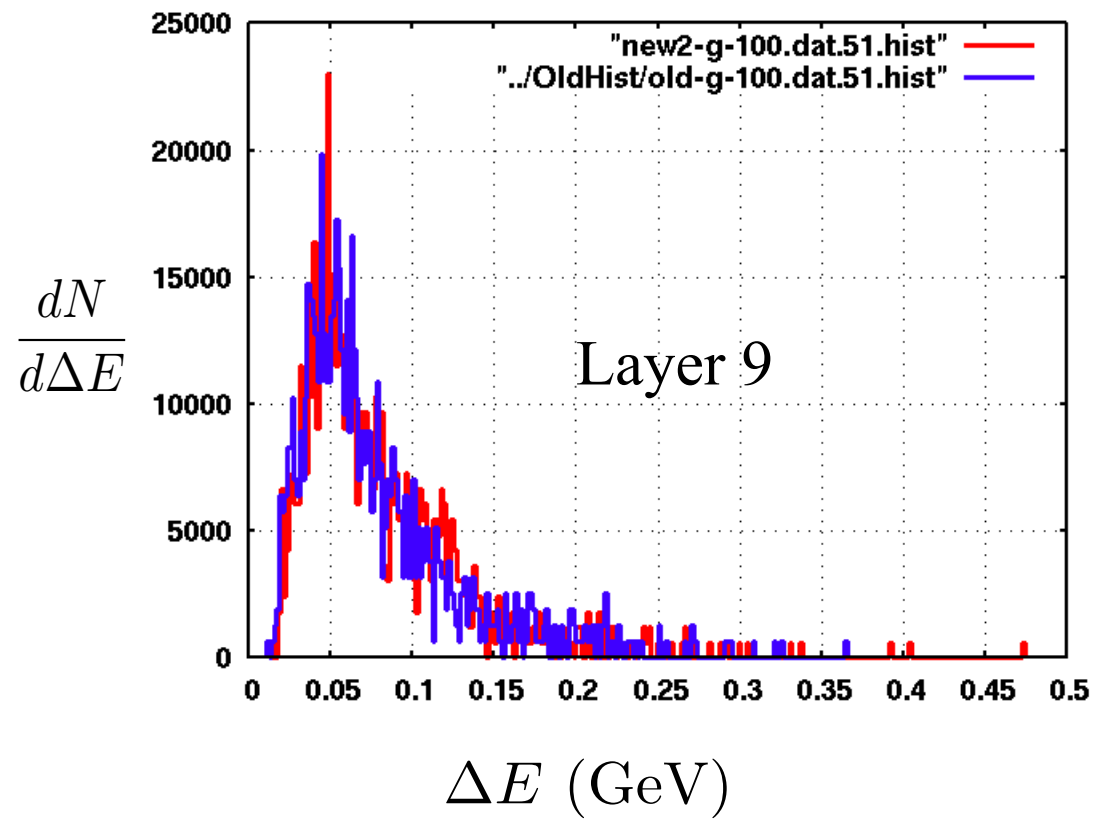


Fig.20

Calorimetric Energy

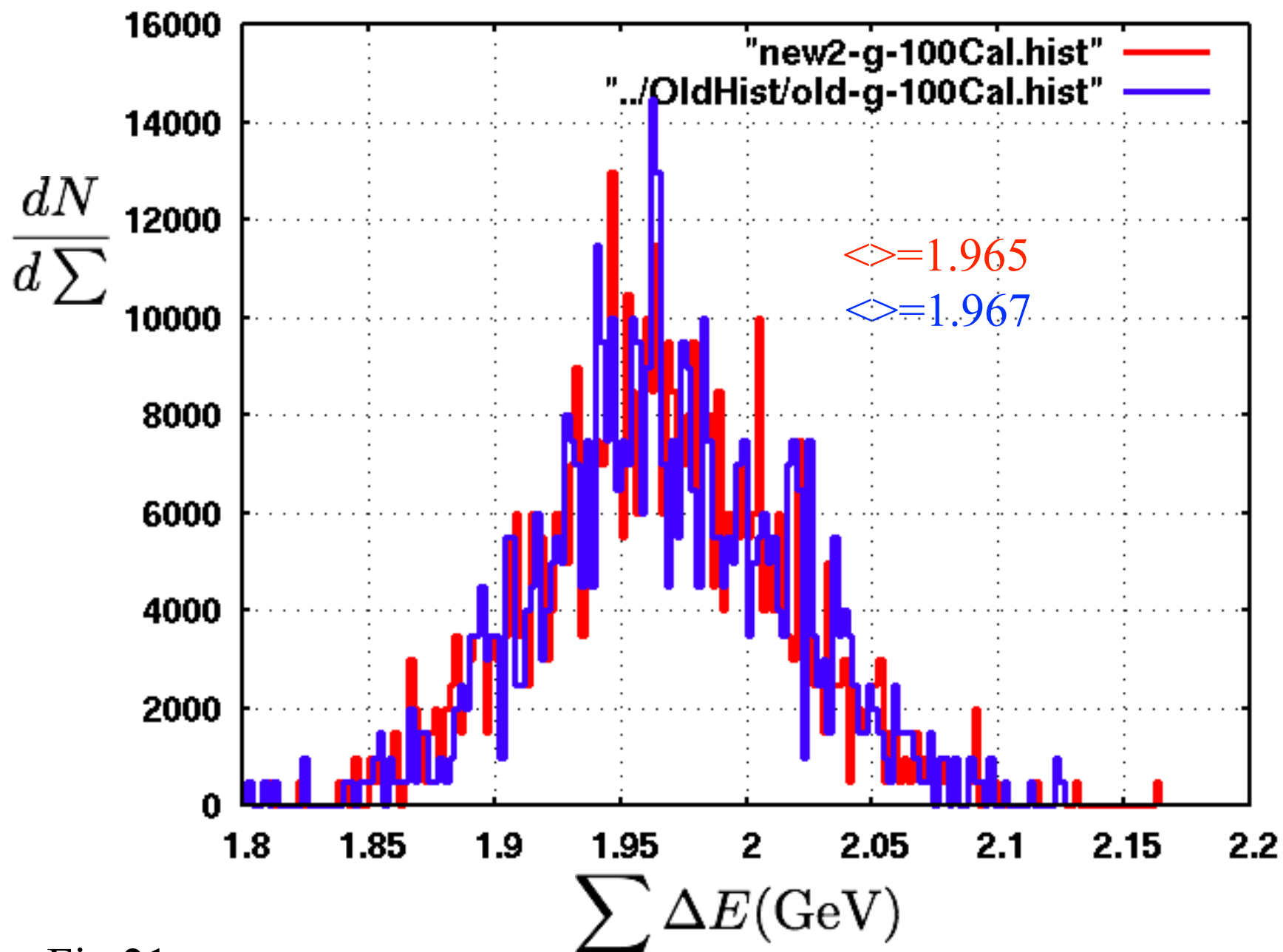


Fig.21

W +SciFi + Scin as LHCf config
(config2cmT in UserHook/Test)

gamma 1.4TeV
1000 events

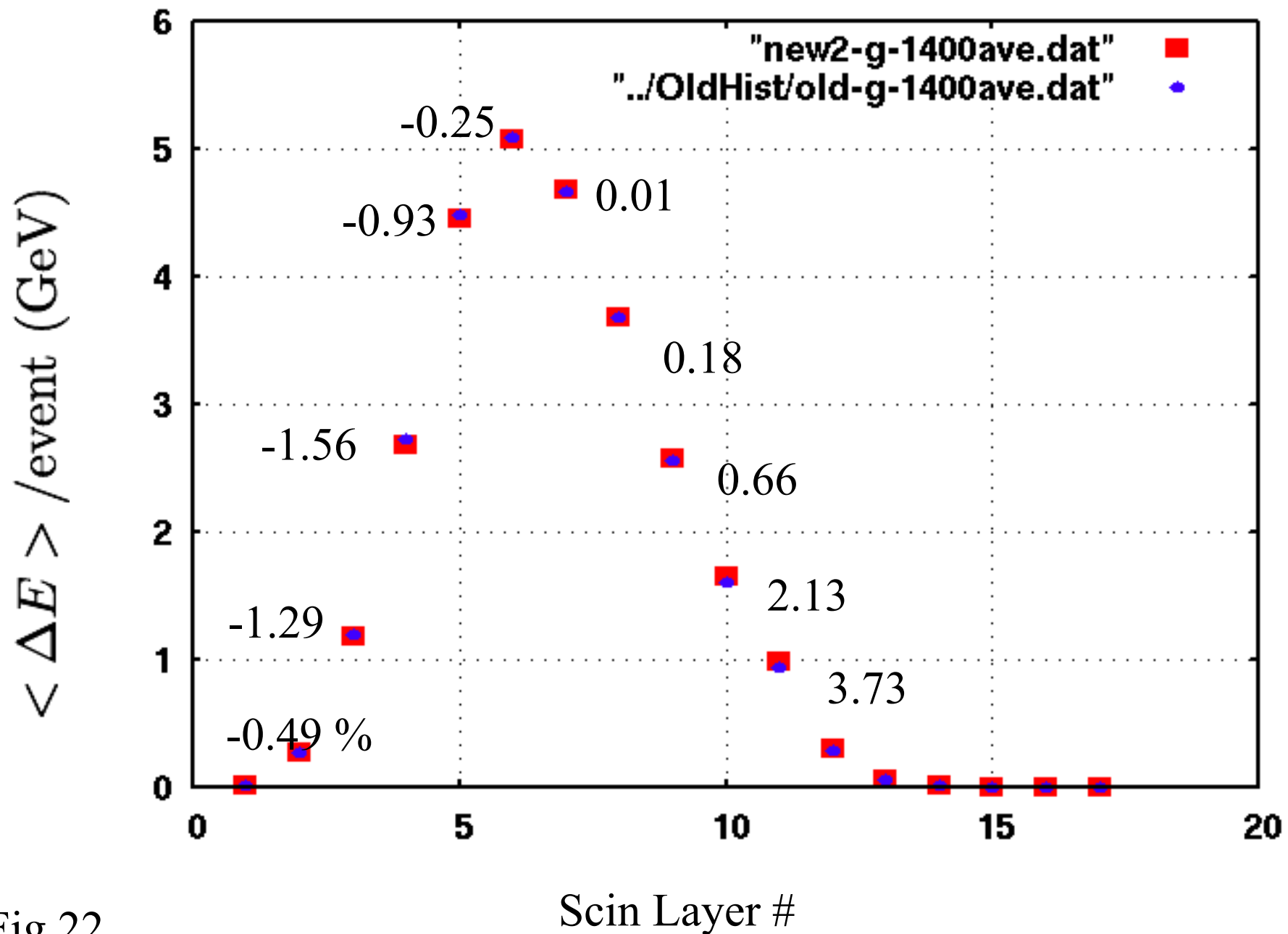


Fig.22

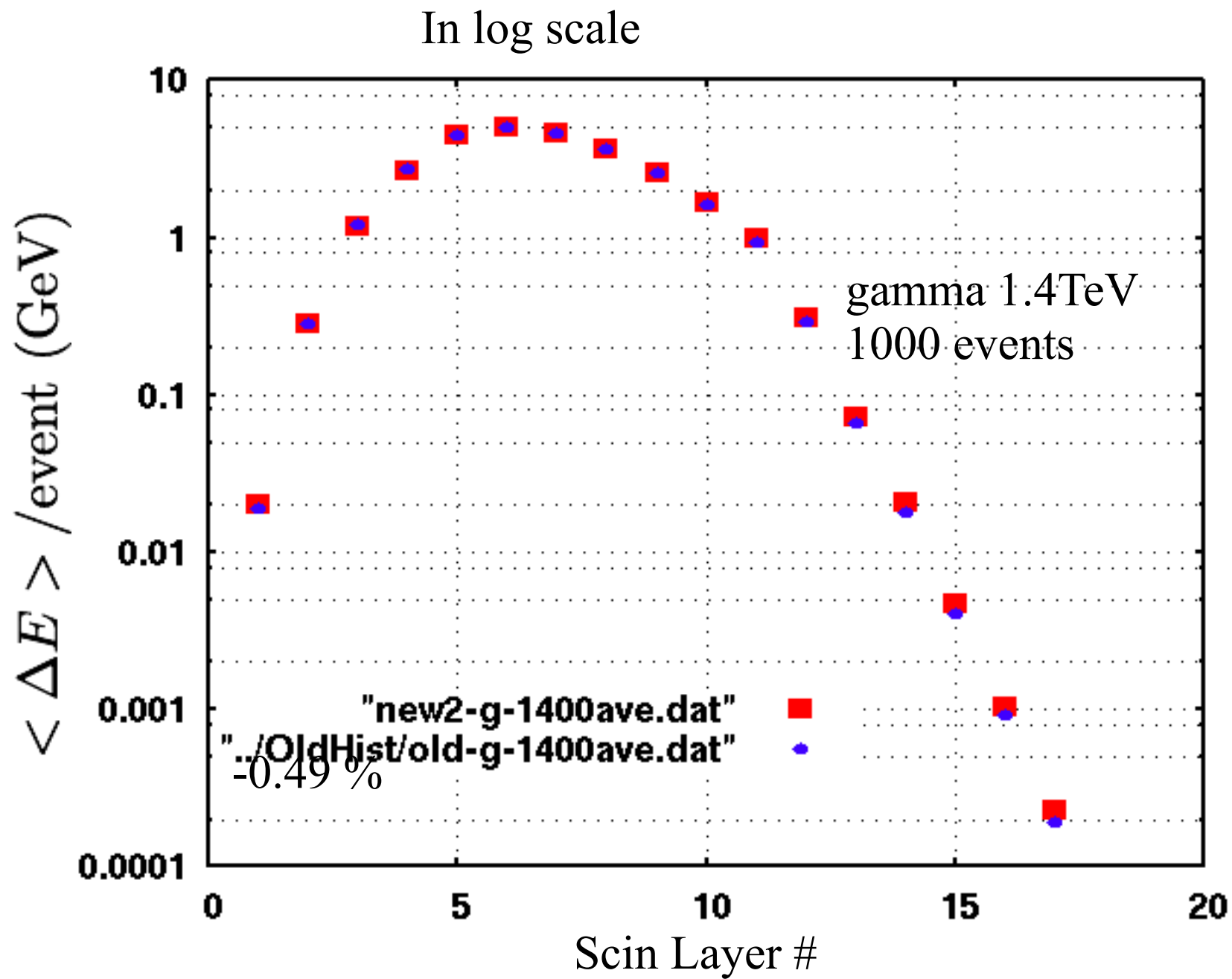


Fig.23

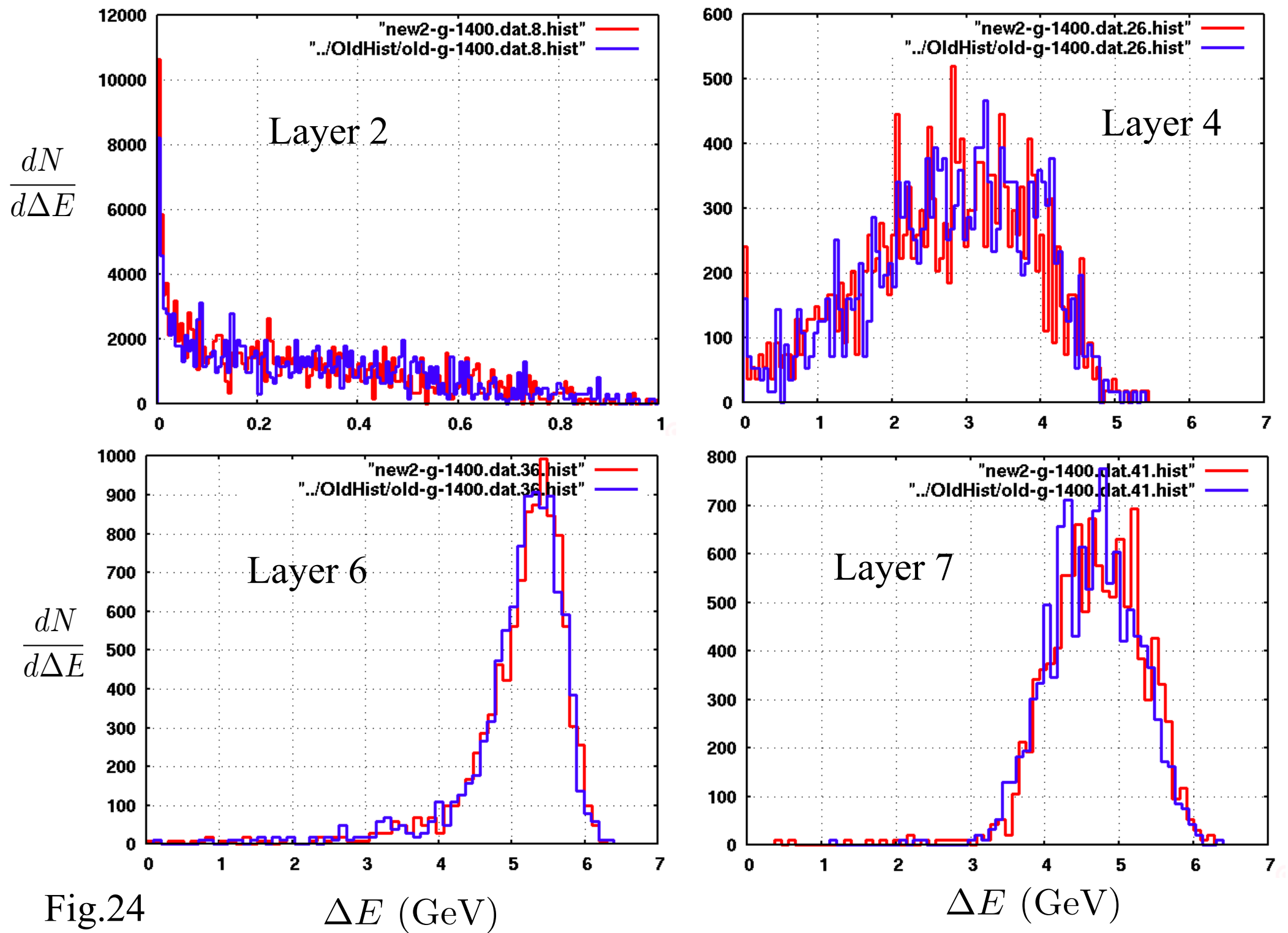


Fig.24

ΔE (GeV)

ΔE (GeV)

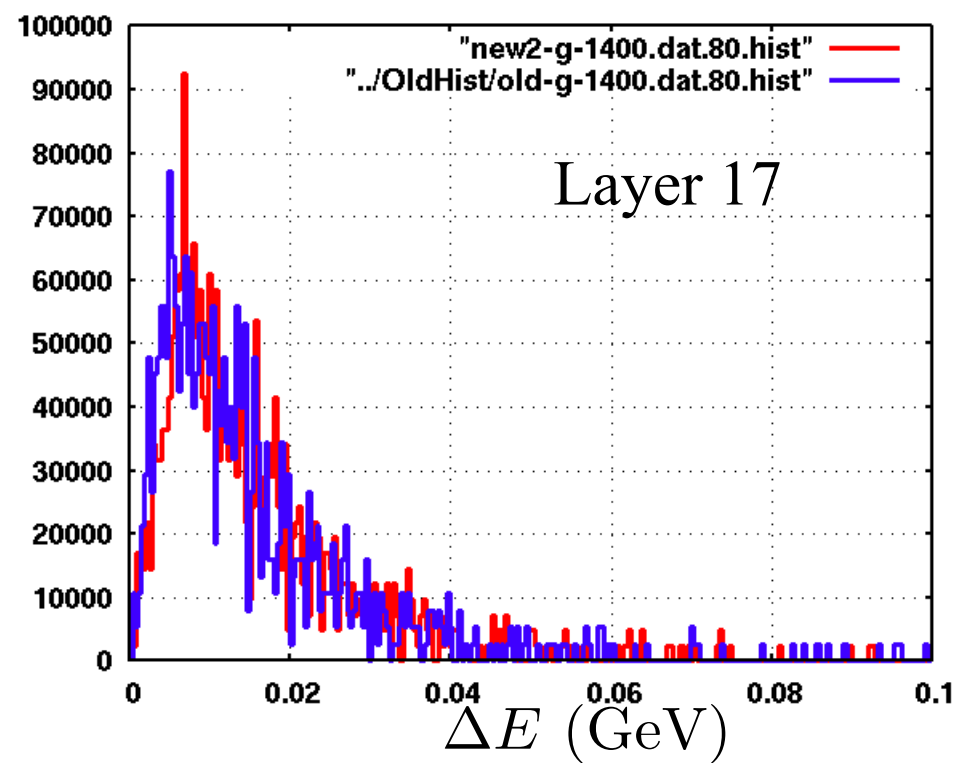
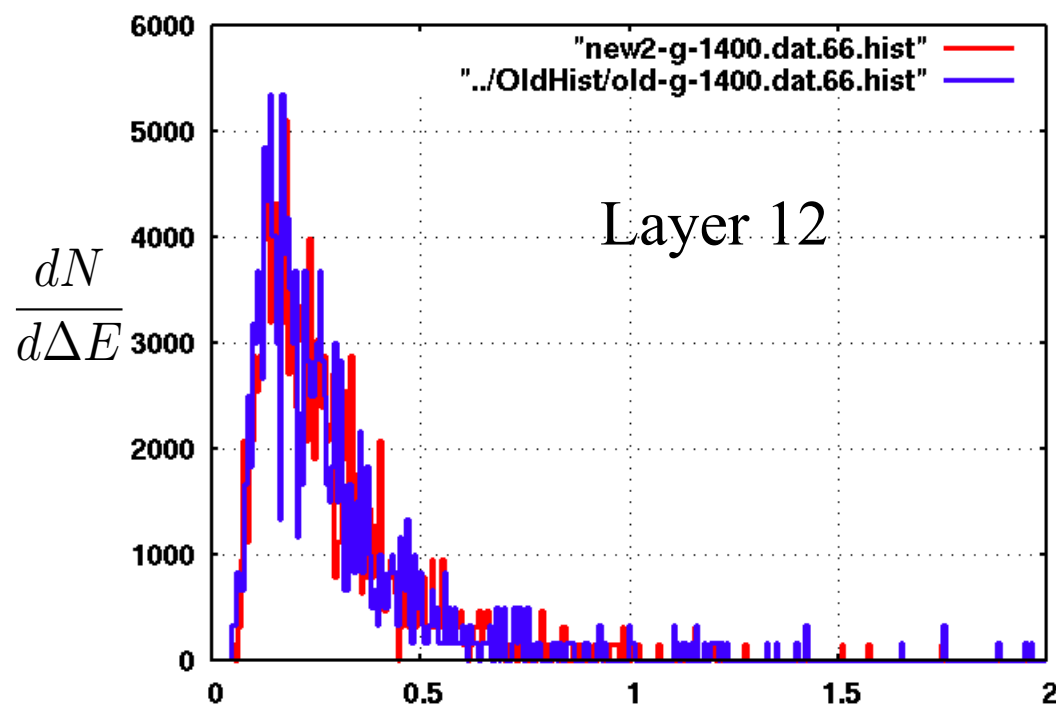
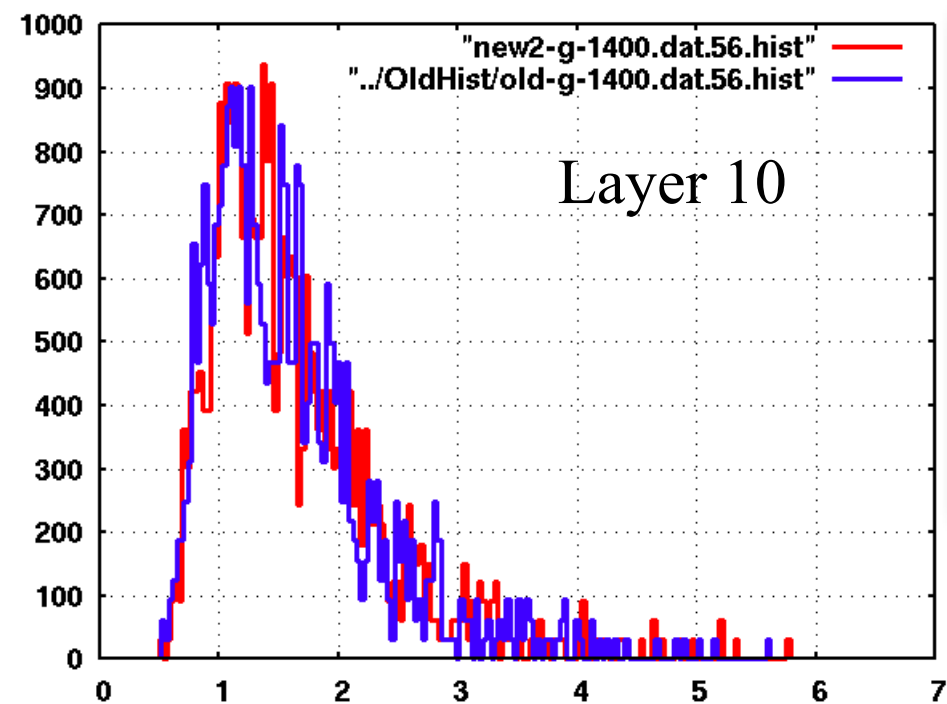
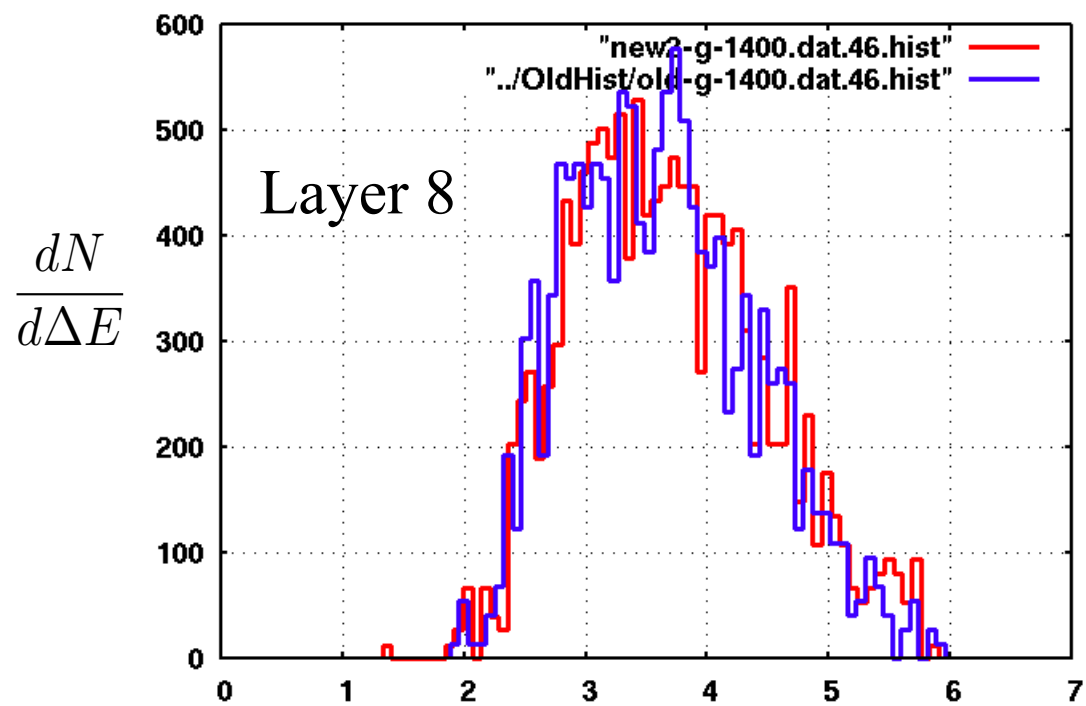


Fig.25

ΔE (GeV)

ΔE (GeV)

Calorimetric Energy

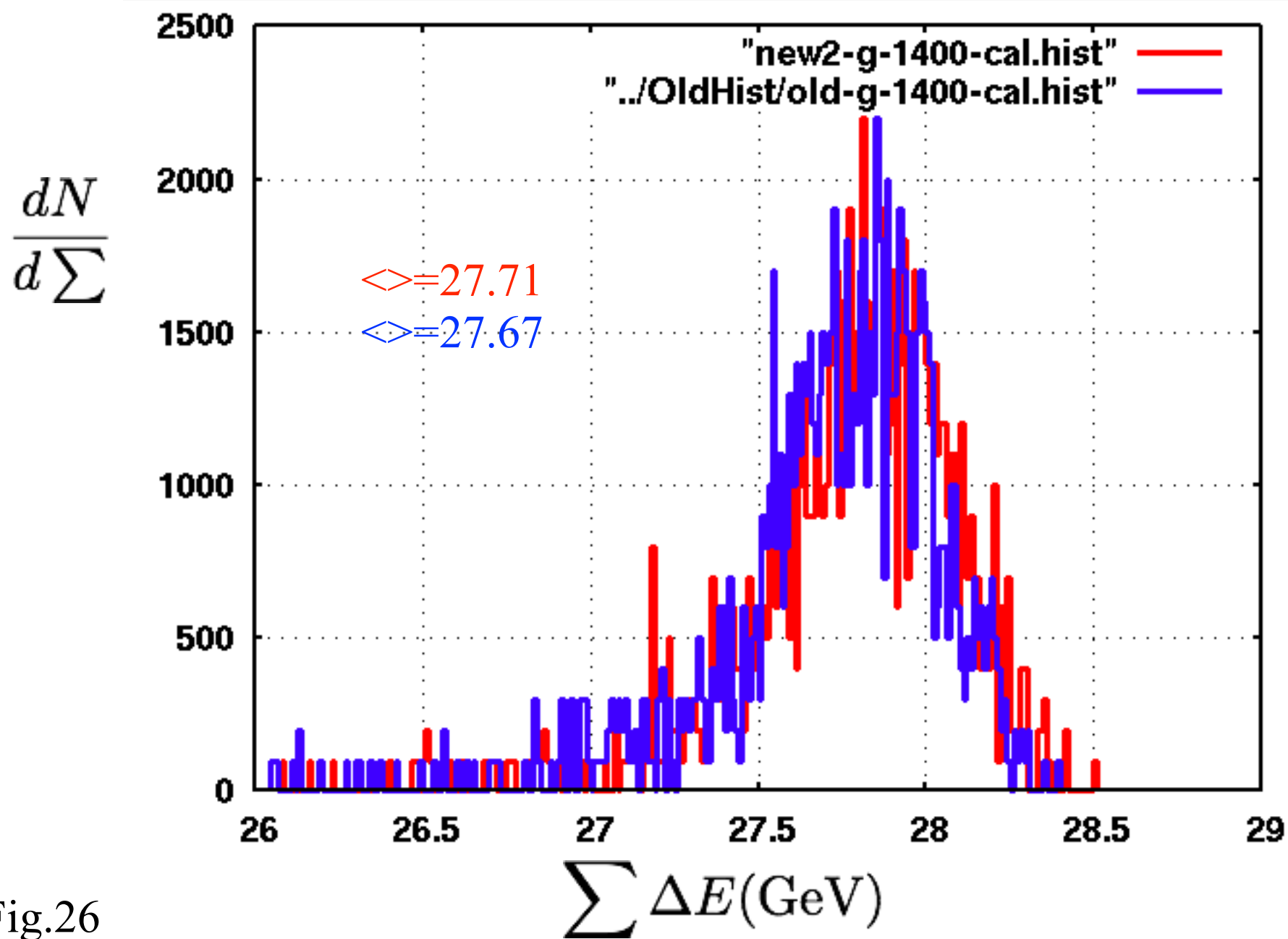


Fig.26

pwo 2cm stack; 12 layers

1.0 TeV e-
1000 events

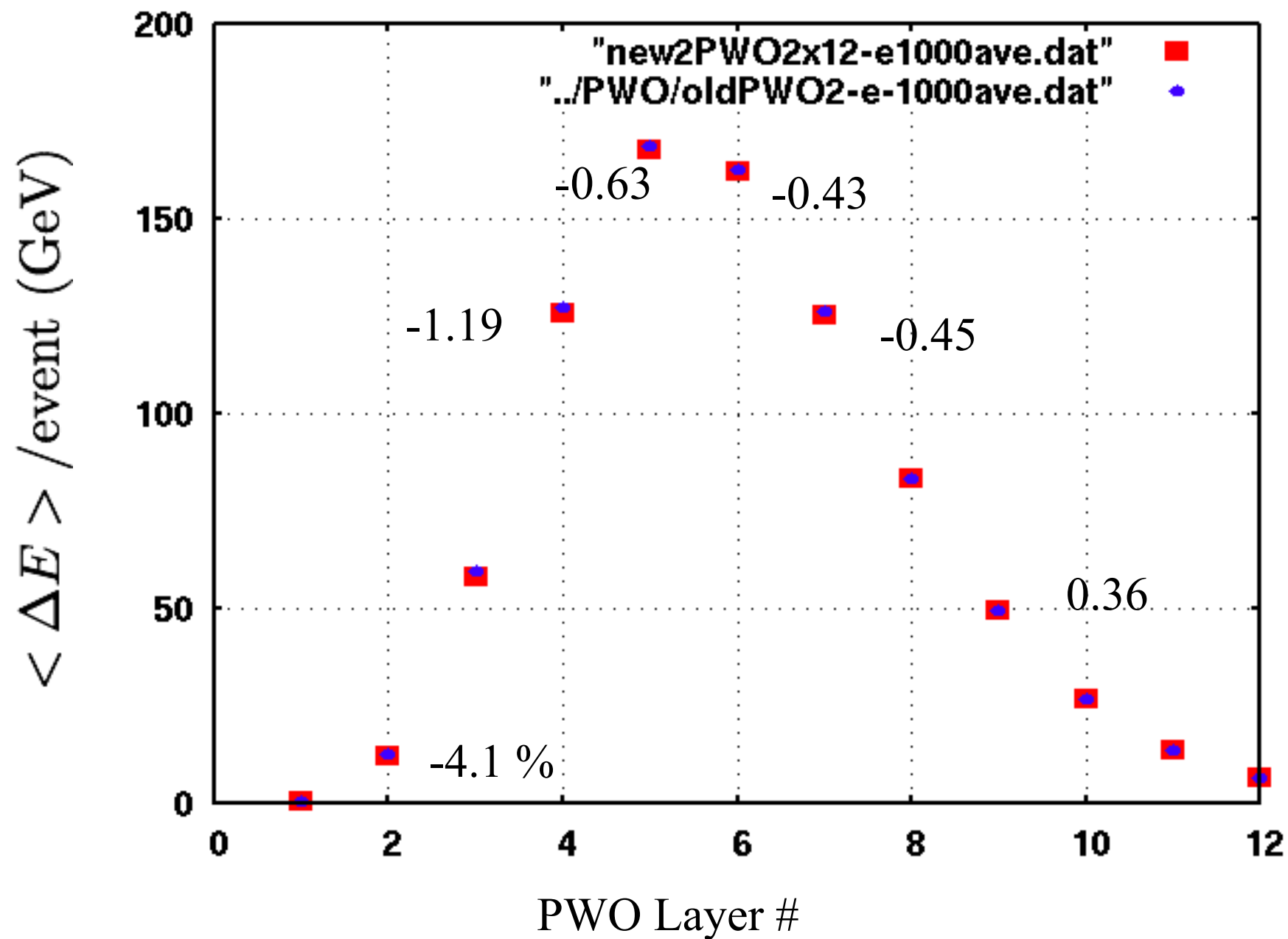


Fig.27

In log scale

pwo 2cm stack; 12 layers

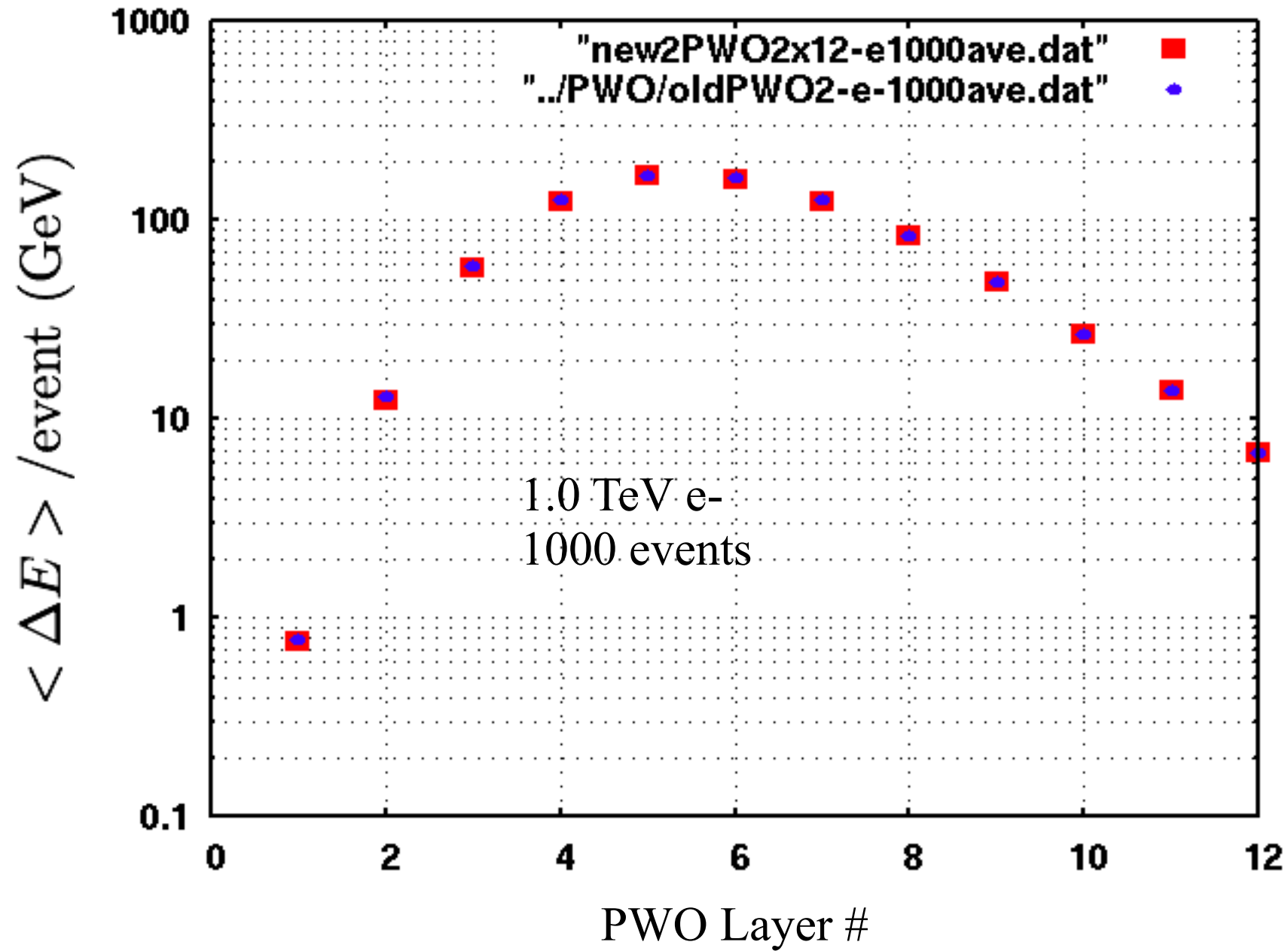


Fig.28

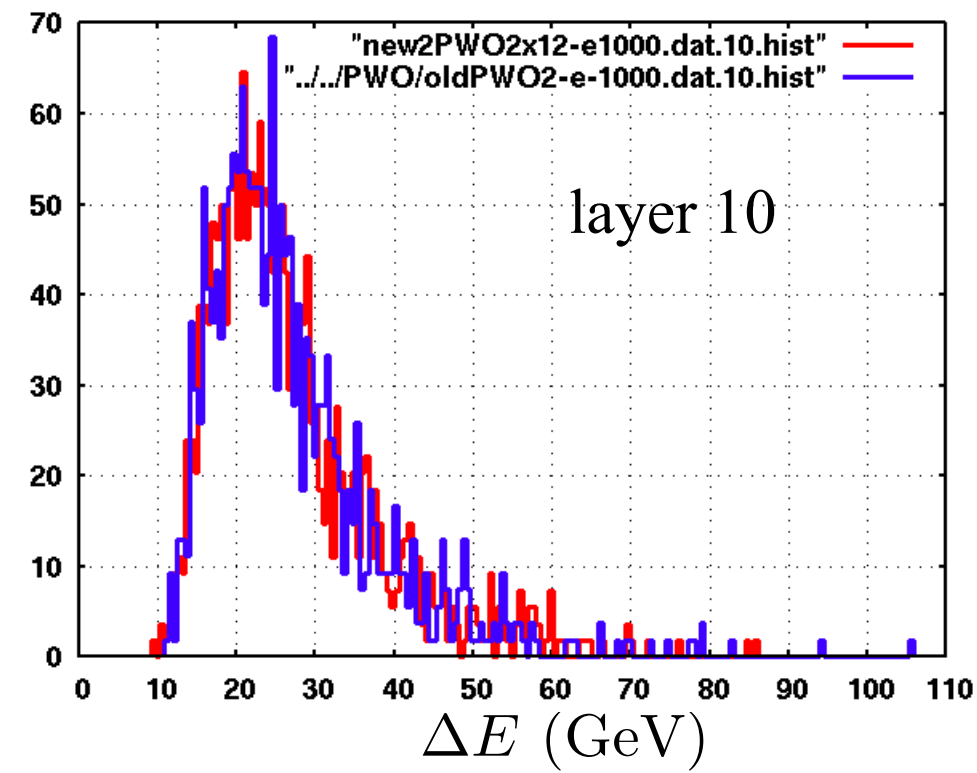
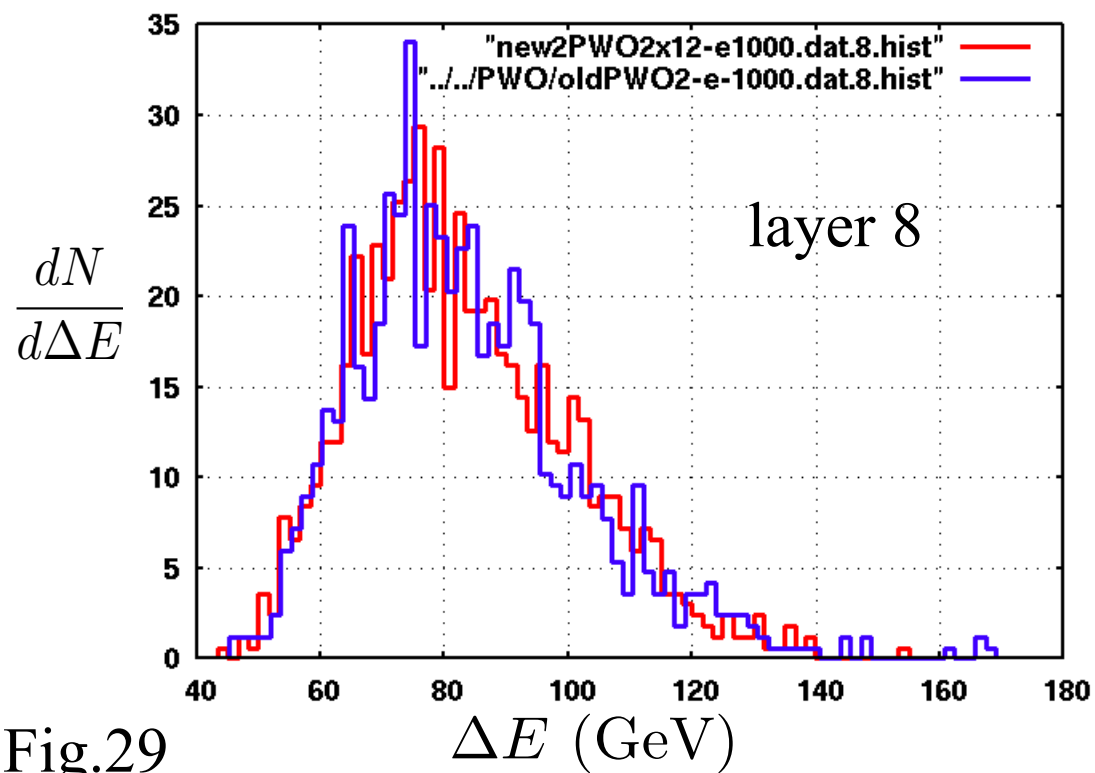
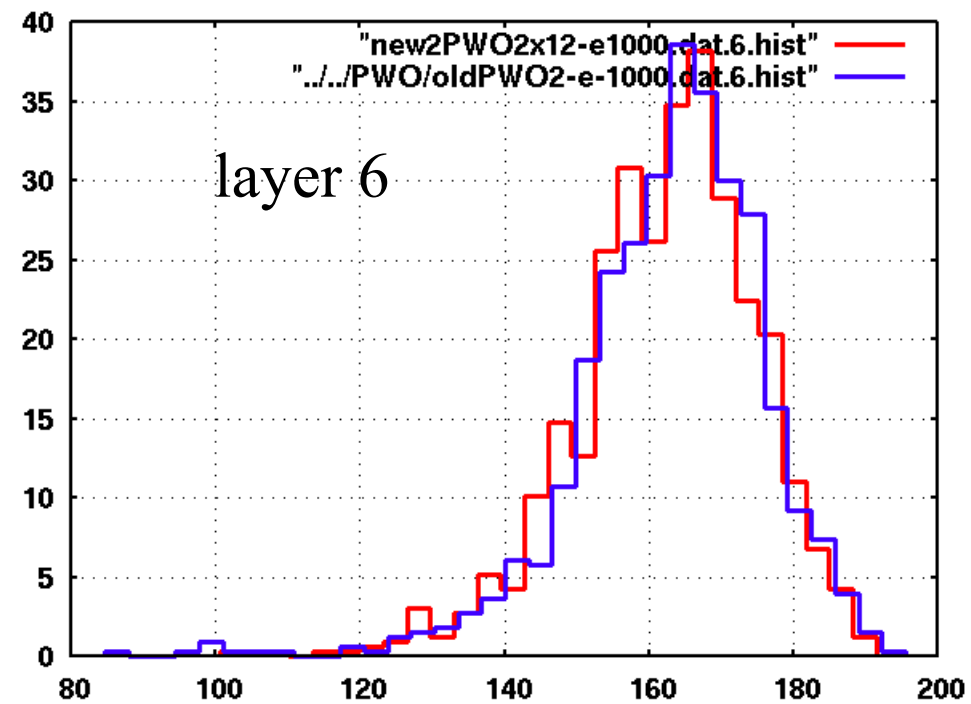
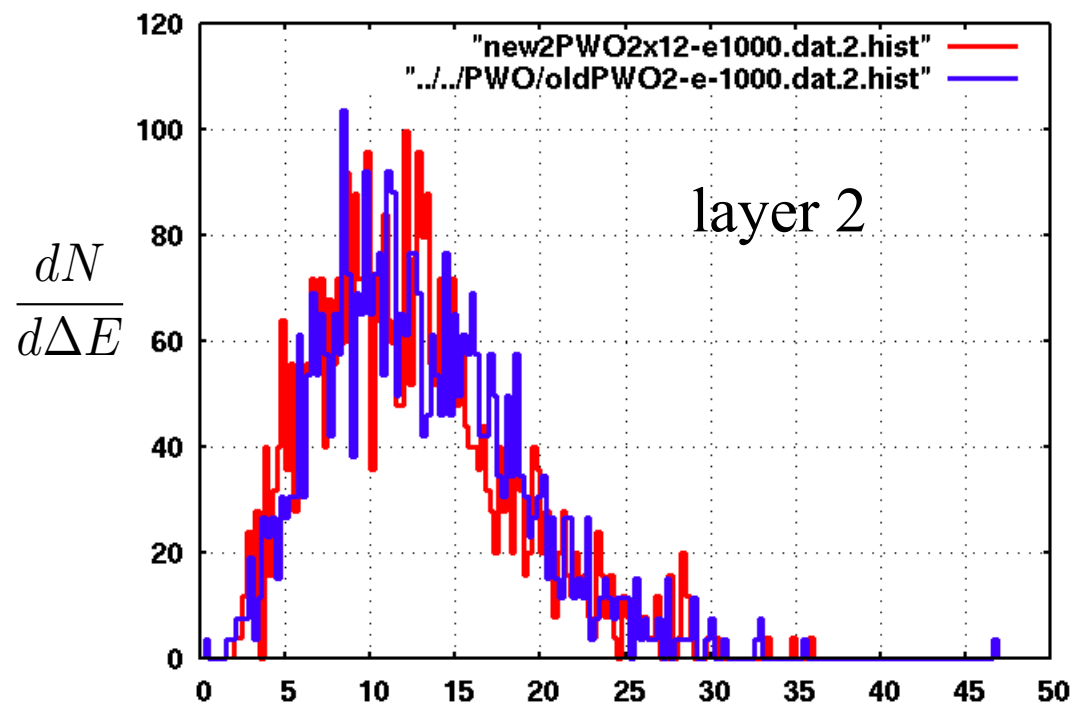
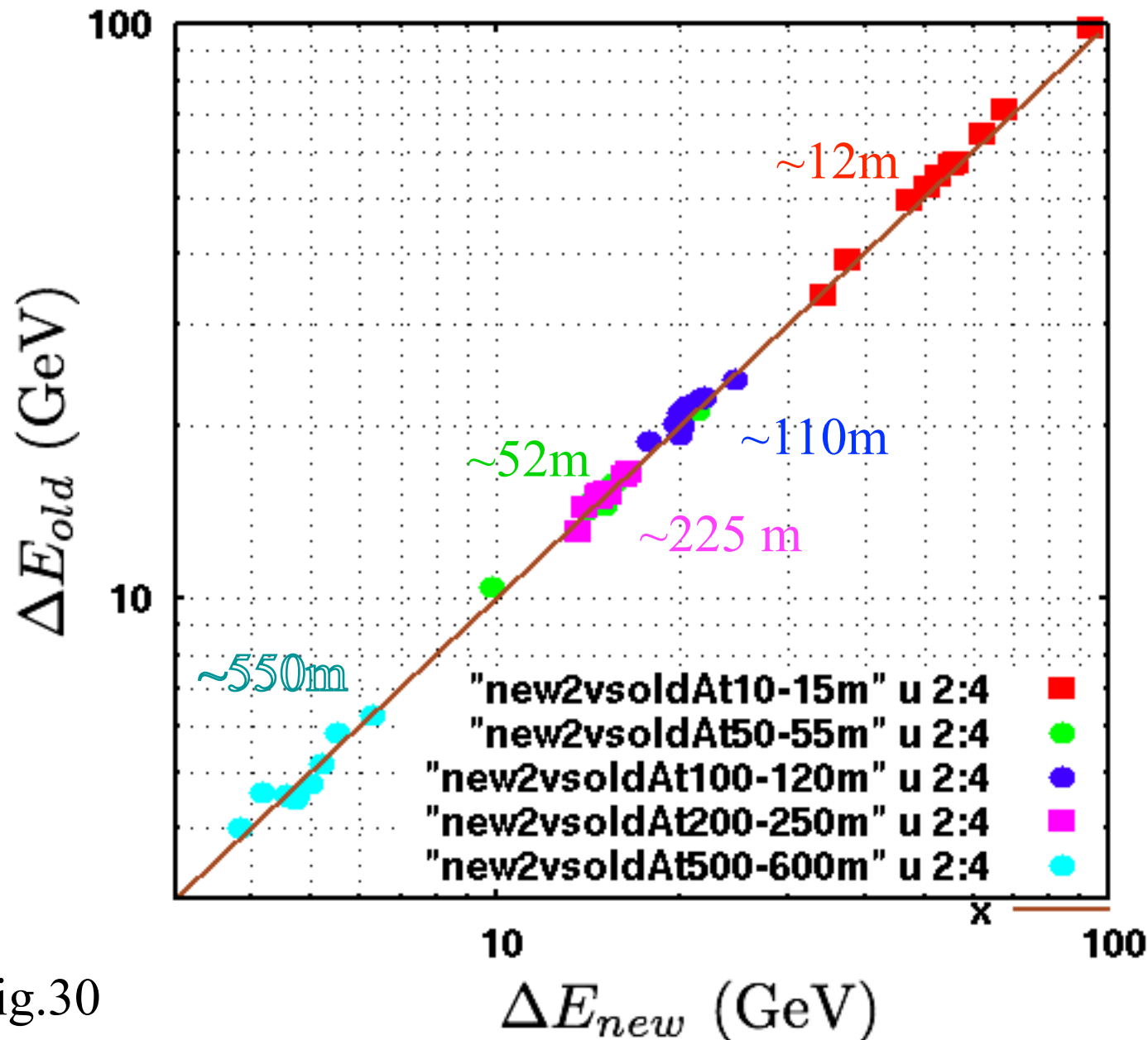


Fig.29

Tibet detector: 0.5 cm Pb + 3 cm Plastic Scin.

100 TeV vertical proton showers 10 events.

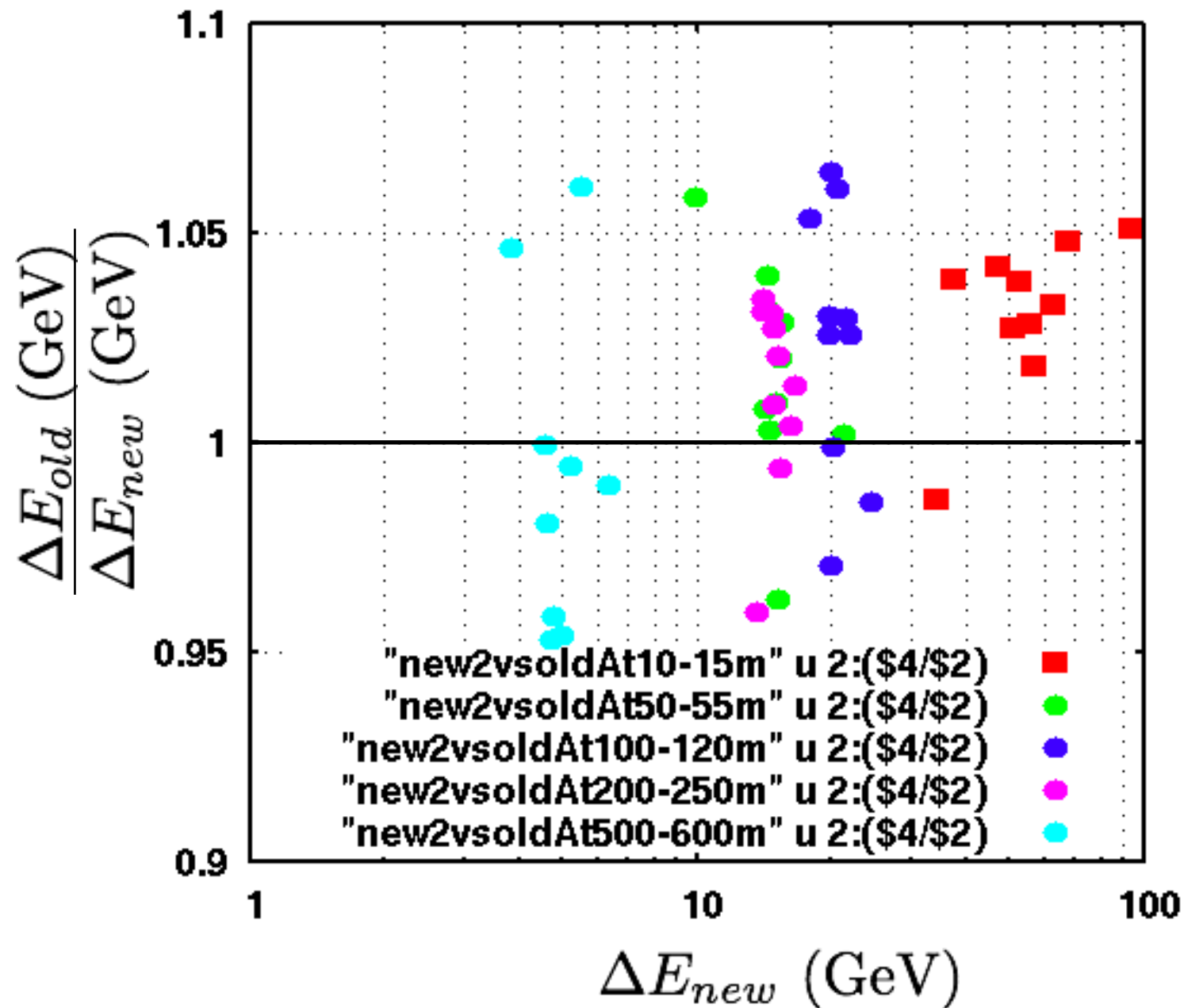
~10000 to ~30000 particles at a given core distances are put into the detector.



Absolute value of ΔE has almost no meaning since it depends on the number of particles put into the detector.

Fig.30

same in the ratio



At core region,
there seems
systematic diff.
of $\sim 3\%$!

Fig.31

Same for zenith angle = 30 deg.

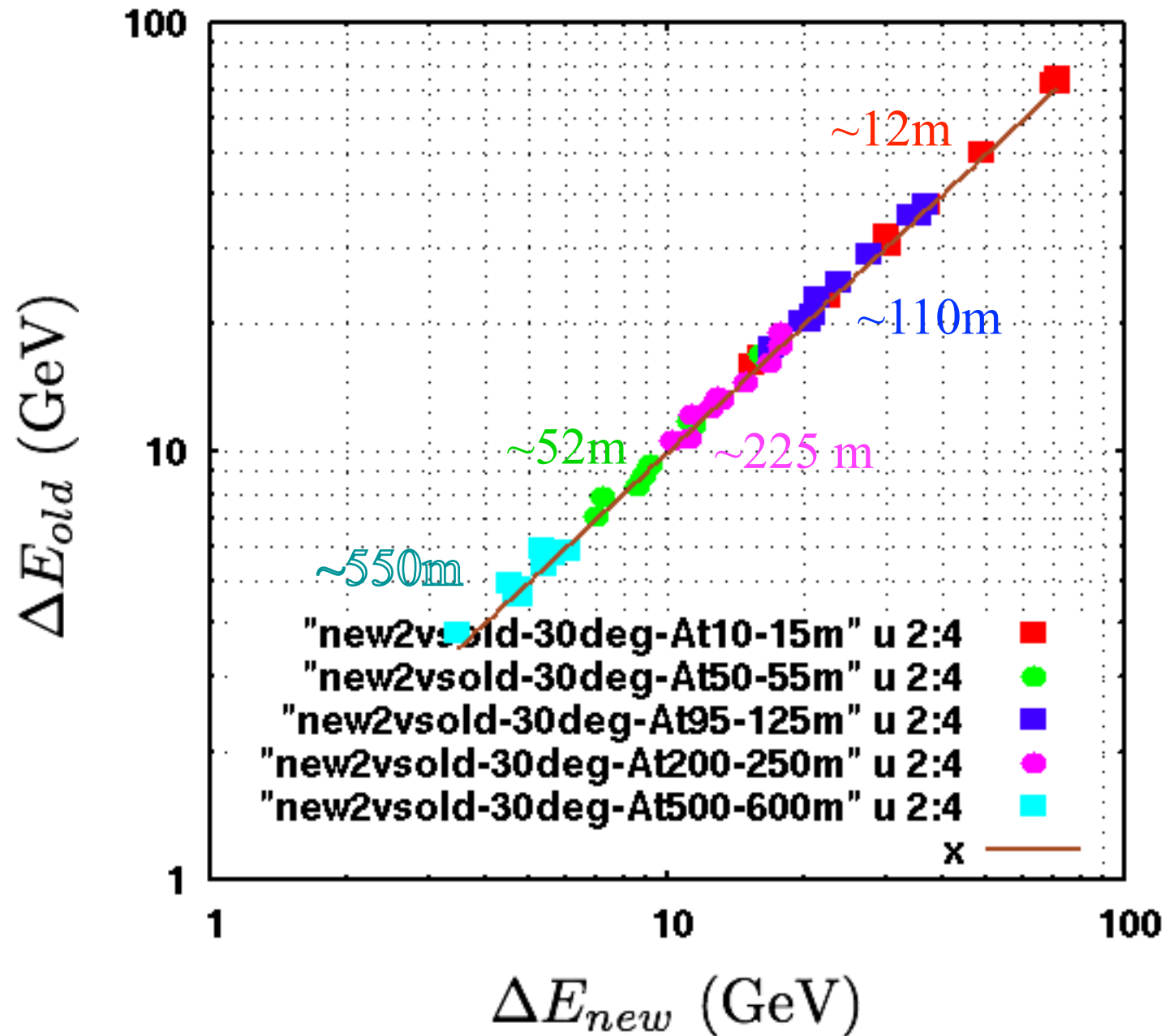


Fig.32

Same in the ratio

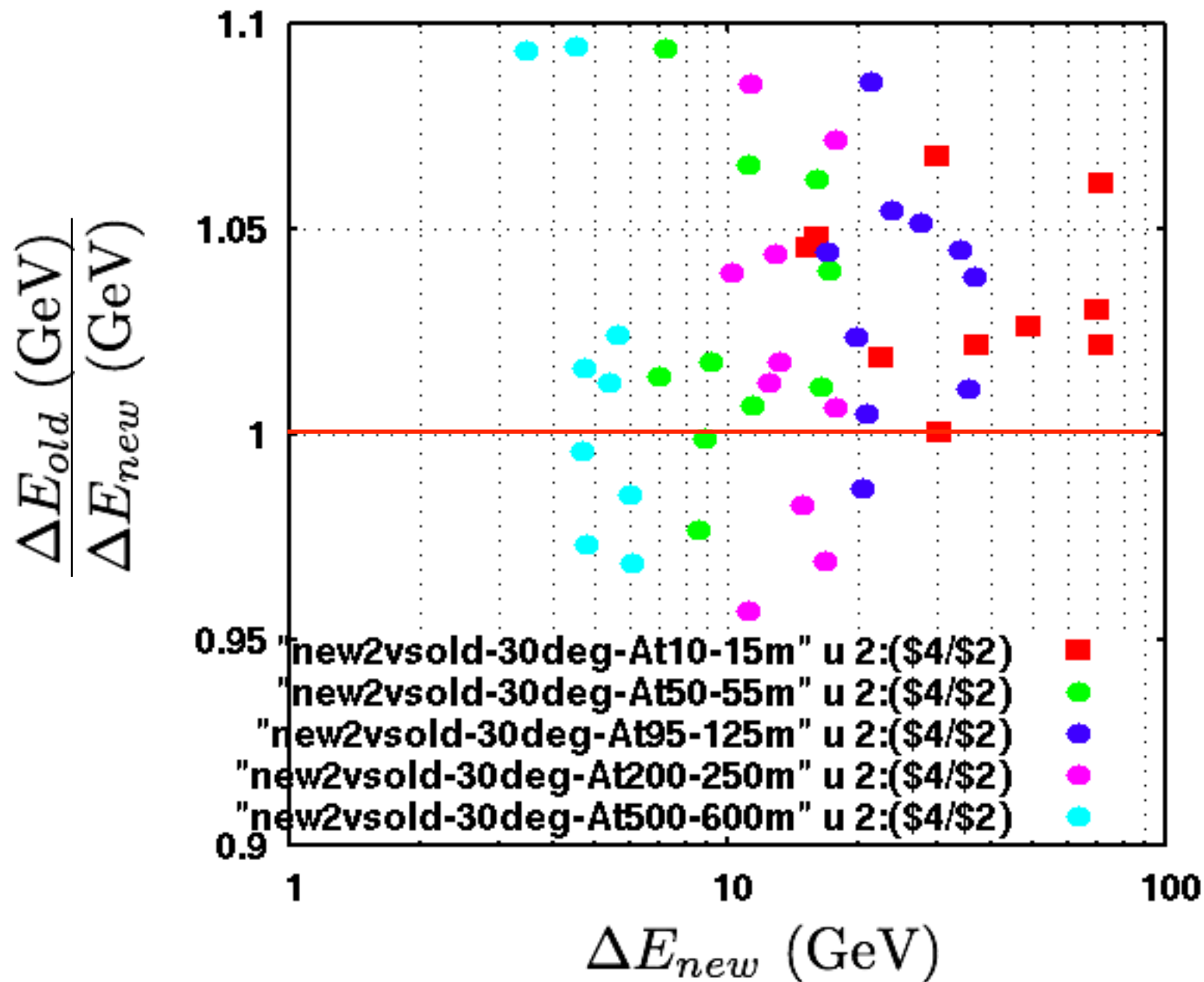


Fig.33