

# PANDA Backward Electromagnetic Calorimeter Studies - Comparison Old software with PandaROOT Status report

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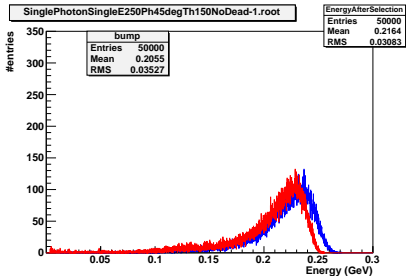
06. 11. 2009

Outlook

Analysis

Booklists

$E=250 \text{ MeV}$ ;  $\phi=45^\circ$ ;  $\theta=150^\circ$ ; No dead material



Most energetic BUMP per event.

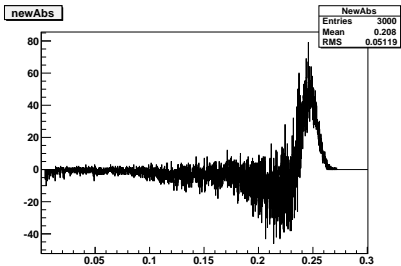
Dmitry's histos

→ Called bump

Mamen's histos

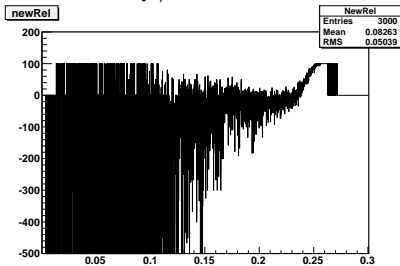
→ Called EnergyAfterSelection

Difference Mamen<sub>i</sub>-Dmitry<sub>i</sub>:

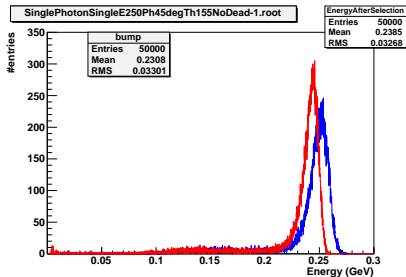


Relative difference

Mamen<sub>i</sub>-Dmitry<sub>i</sub>/Mamen<sub>i</sub>:



$E=250 \text{ MeV}$ ;  $\phi=45^\circ$ ;  $\theta=155^\circ$ ; No dead material



Most energetic BUMP per event.

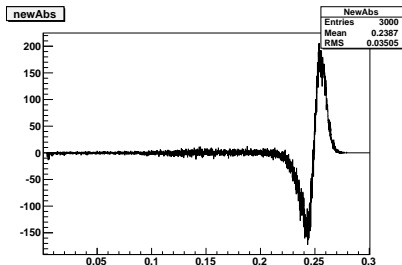
Dmitry's histos

→ Called bump

Mamen's histos

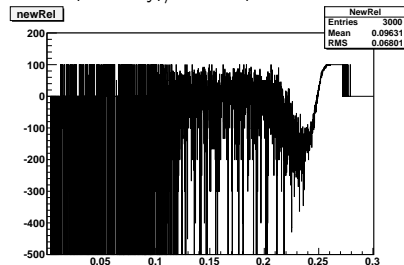
→ Called EnergyAfterSelection

Difference Mamen<sub>i</sub>-Dmitry<sub>i</sub>:

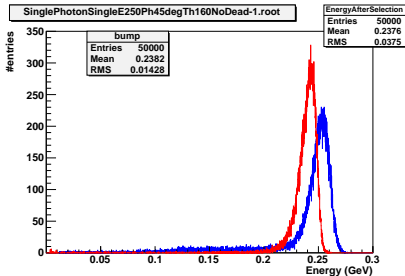


Relative difference

Mamen<sub>i</sub>-Dmitry<sub>i</sub>/Mamen<sub>i</sub>:



$E=250 \text{ MeV}$ ;  $\phi=45^\circ$ ;  $\theta=160^\circ$ ; No dead material



Most energetic BUMP per event.

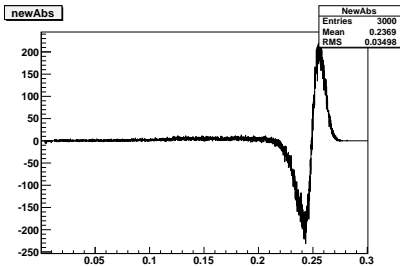
Dmitry's histos

→ Called bump

Mamen's histos

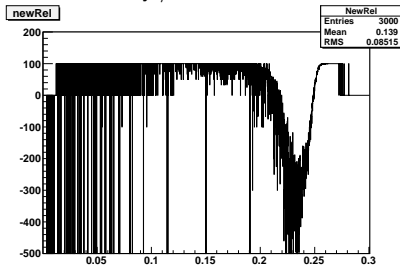
→ Called EnergyAfterSelection

Difference Mamen<sub>i</sub>-Dmitry<sub>i</sub>:



Relative difference

Mamen<sub>i</sub>-Dmitry<sub>i</sub>/Mamen<sub>i</sub>:



## Book list

- ▶ Techniques for Nuclear and Particle Physics Experiments, William R. Leo.
- ▶ Quarks and Leptons, Halzen und Martin.