

Snake Calibration

Maxime Levillain

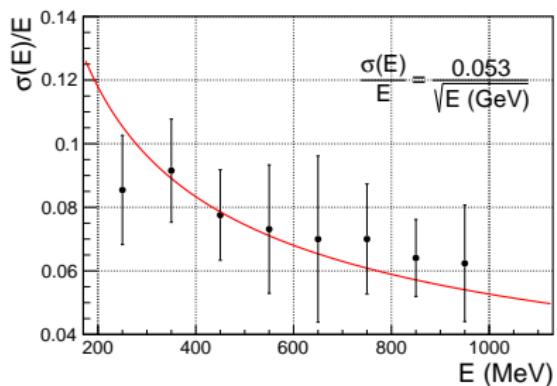
November 4, 2016



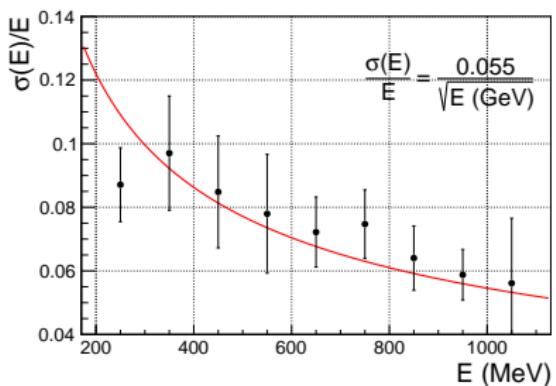
Resolution LG

- ▶ Statistical uncertainties (non-visible) and systematic from non-uniformity: sigma of distribution
 $(X)_{module} = (\sigma(E)/E)_{module}$

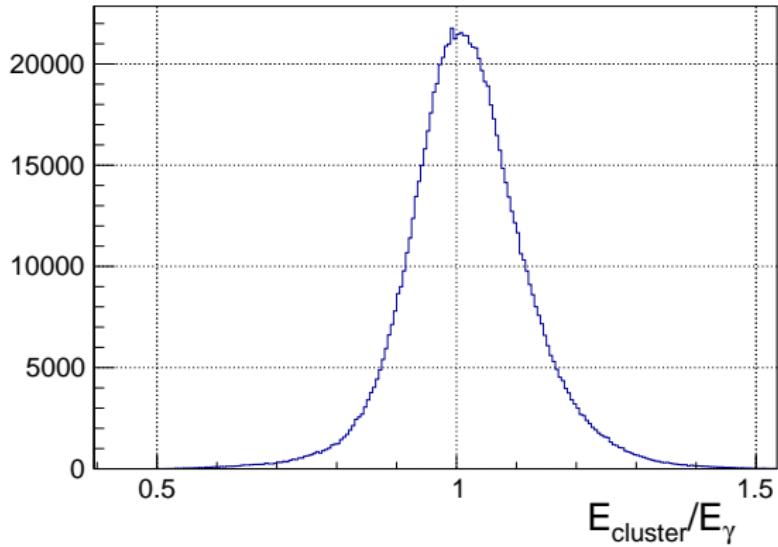
cpp



primex

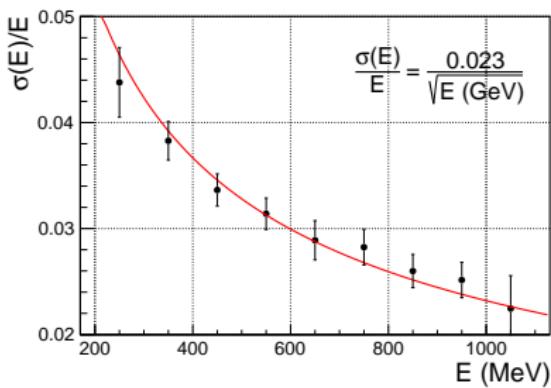


Distribution ratio LG for E=550 MeV

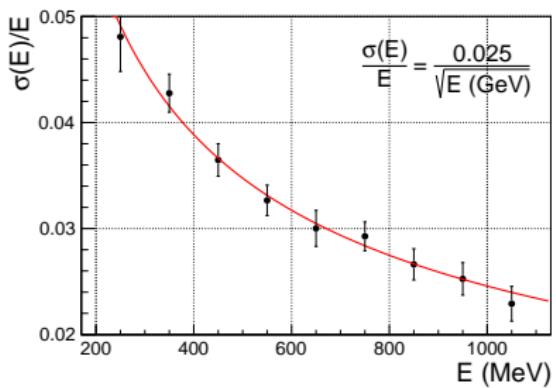


Resolution PWO

cpp

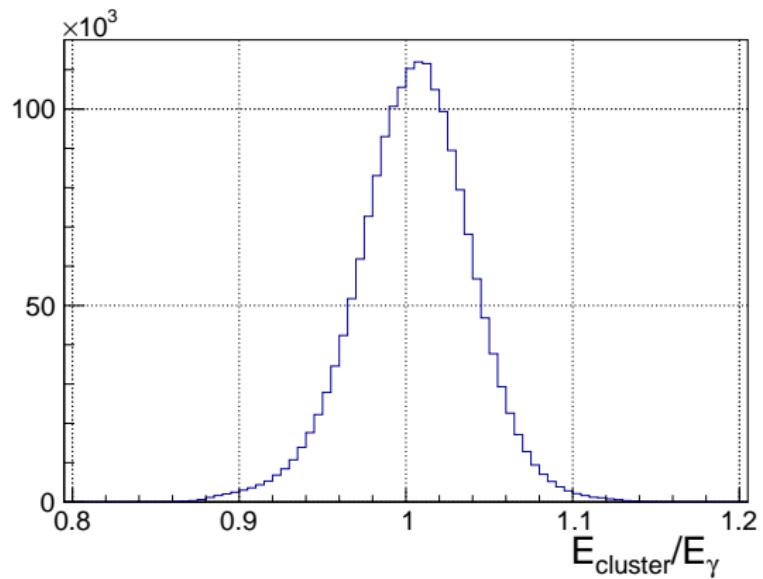


primex



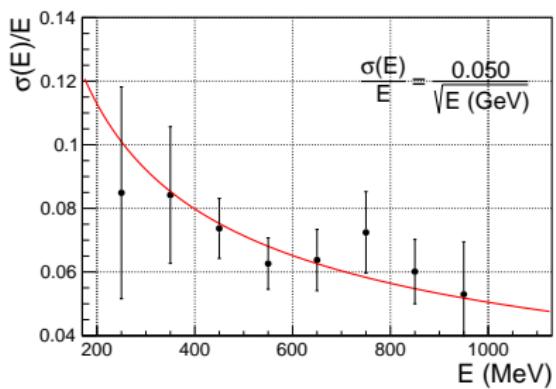
Distribution ratio PWO for E=550 MeV

PROton
Radius

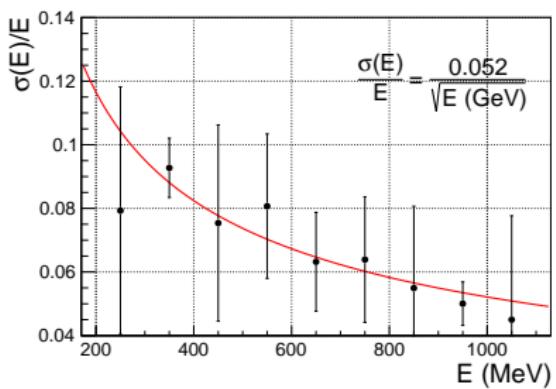


Resolution LG transition region

cpp

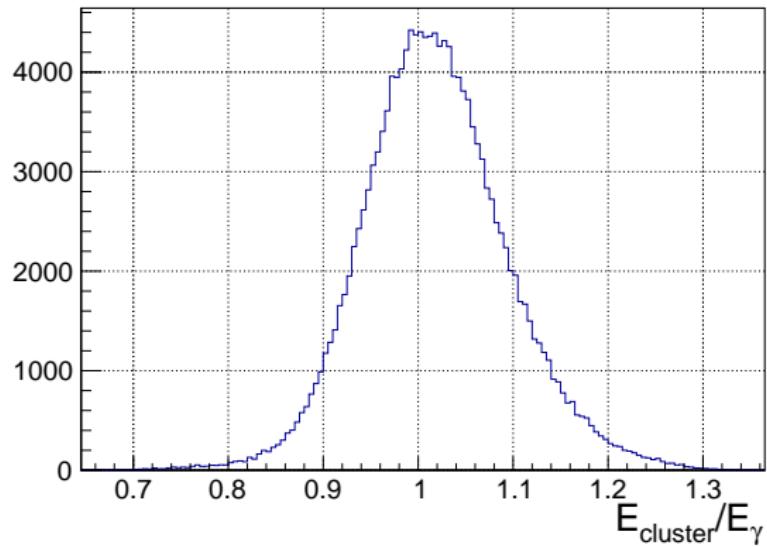


primex



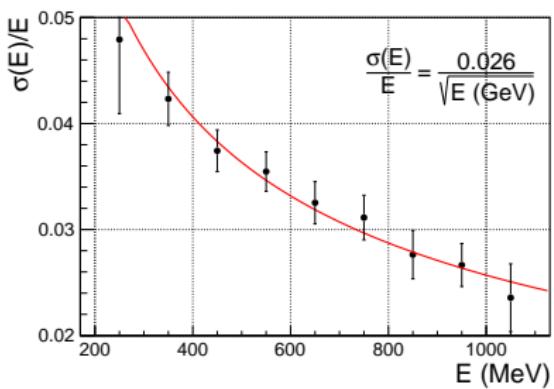
Distribution ratio PWO for E=550 MeV, transition region

PR
o_n
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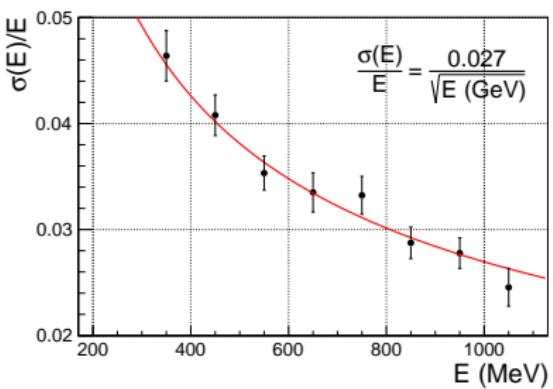


Resolution PWO transition region

cpp

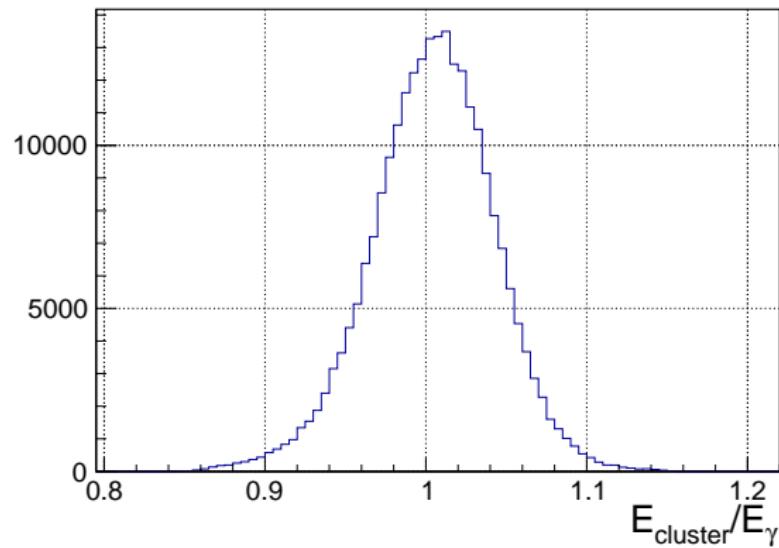


primex

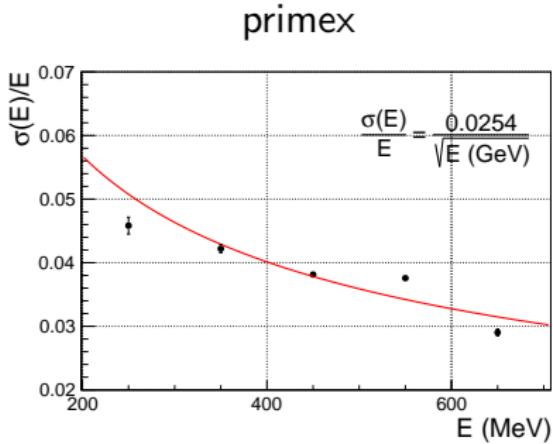
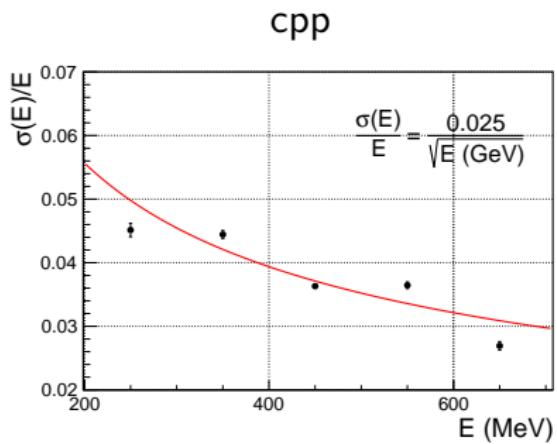


Distribution ratio PWO for E=550 MeV, transition region

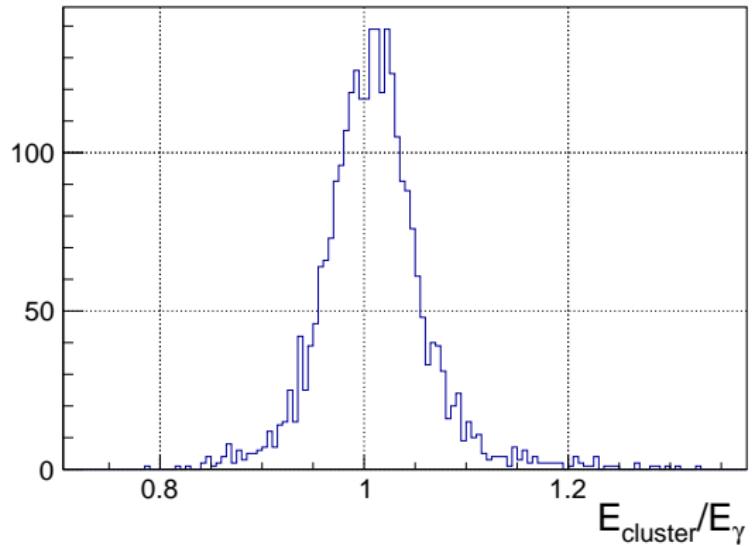
PR
o
ton
Radius



- ▶ Only statistical uncertainties (non-uniformity distribution not relevant here)

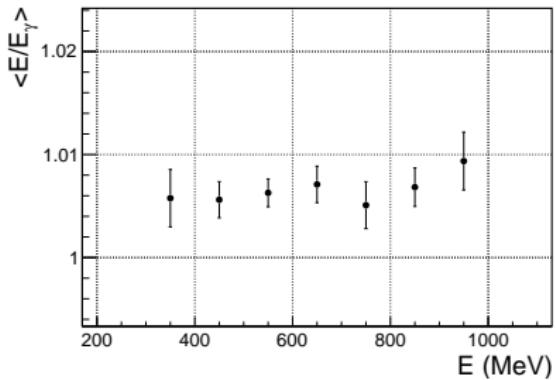


Distribution ratio PWO for E=550 MeV, center of proton radius

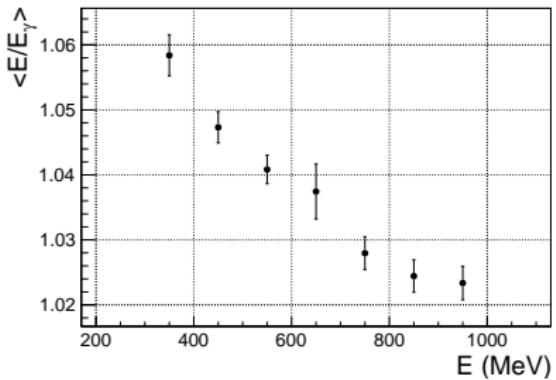


Non linearity PWO

cpp



primex



- ▶ Value above 1. may be due to 1 MeV cut and discretization at 0.1MeV
- ▶ May need another pass using PRadEventViewer code
- ▶ Non linearity depending on 1 MeV cut