



# Photon

## Barrel & Endcap study

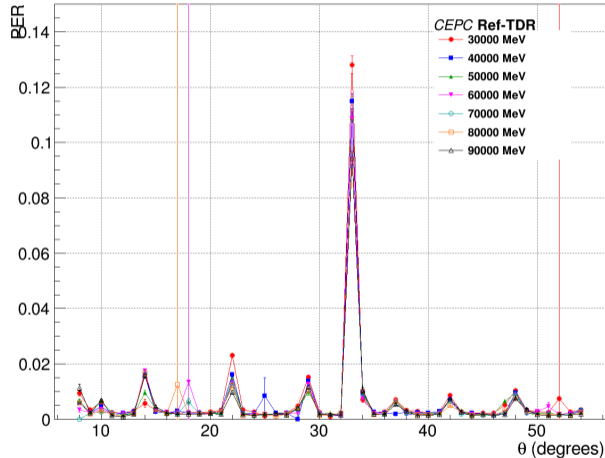
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Mohamed Reda Mekouar

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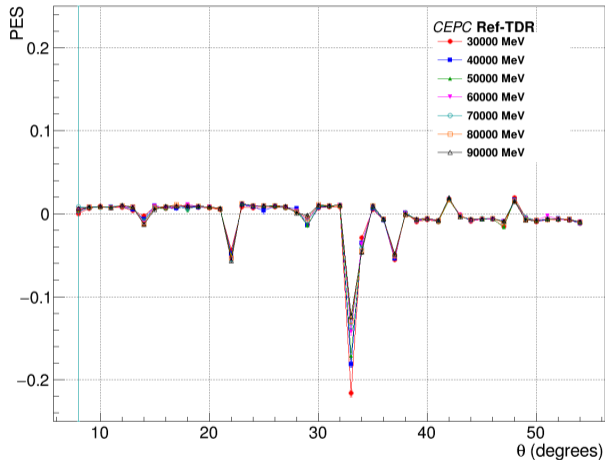
Institute of High Energy Physics, Chinese Academy of Sciences

# Photon Energy Resolution



Expected behavior (different zones clear) The lower the energy the worse the resolution -  
Certain points will be better fitted (long error bar)

# Photon Energy Scale



In the center of modules (barrel or endcap), scale value is almost at 0, need calibration for cracks - One point with long error bar (fit problem)

-Differential plots for resolution/scale over the whole energy range from lower energies (1, 1.5, ...GeV) to higher energies (60, 70, 80...GeV) for specific points (modules/cracks)

-Points chosen:

$\theta = (45^\circ : \text{center of barrel module}, 42^\circ : \text{crack between two barrel modules},$

$33^\circ : \text{crack region between barrel and endcap},$

$22^\circ : \text{crack between two endcap modules}, 19^\circ : \text{center of endcap module})$

-Last samples generated and plots almost ready

Thank you

Back-up

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