Barrel Calorimeter
SciGlass implementation

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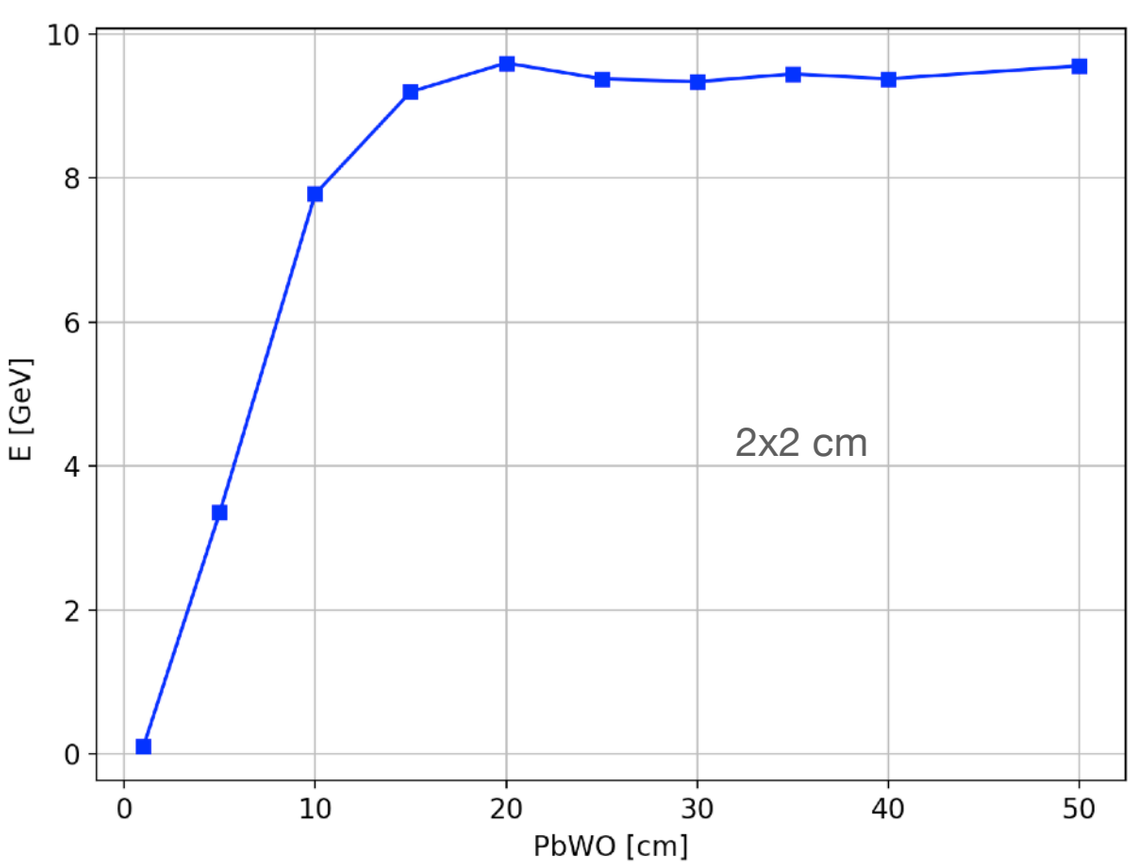
06/08/2021

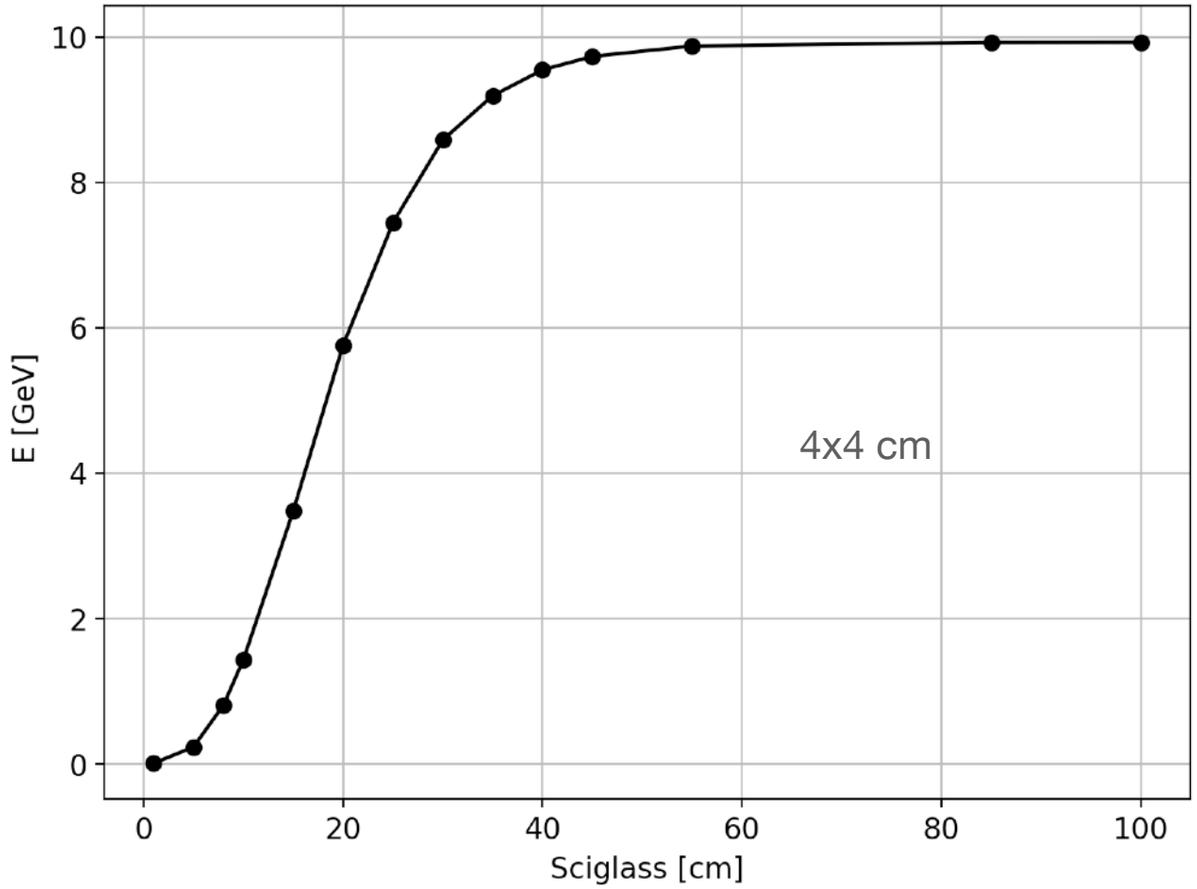
Current work

- Blocks geometry implemented by using the SPACAL version of sPHENIX.
- Using the simple version to evaluate the resolution and performance of the SciGlass.

Generating:

Simple Sample
Electrons at 10 GeV
Eta Range (-0.2,0.2)
All other detectors and magnet are off





Generating:

$$\frac{\sigma_E}{E} = \frac{S}{\sqrt{E}} + \frac{N}{E} + C$$

Simple Sample
Eta Range (-0.2,0.2)
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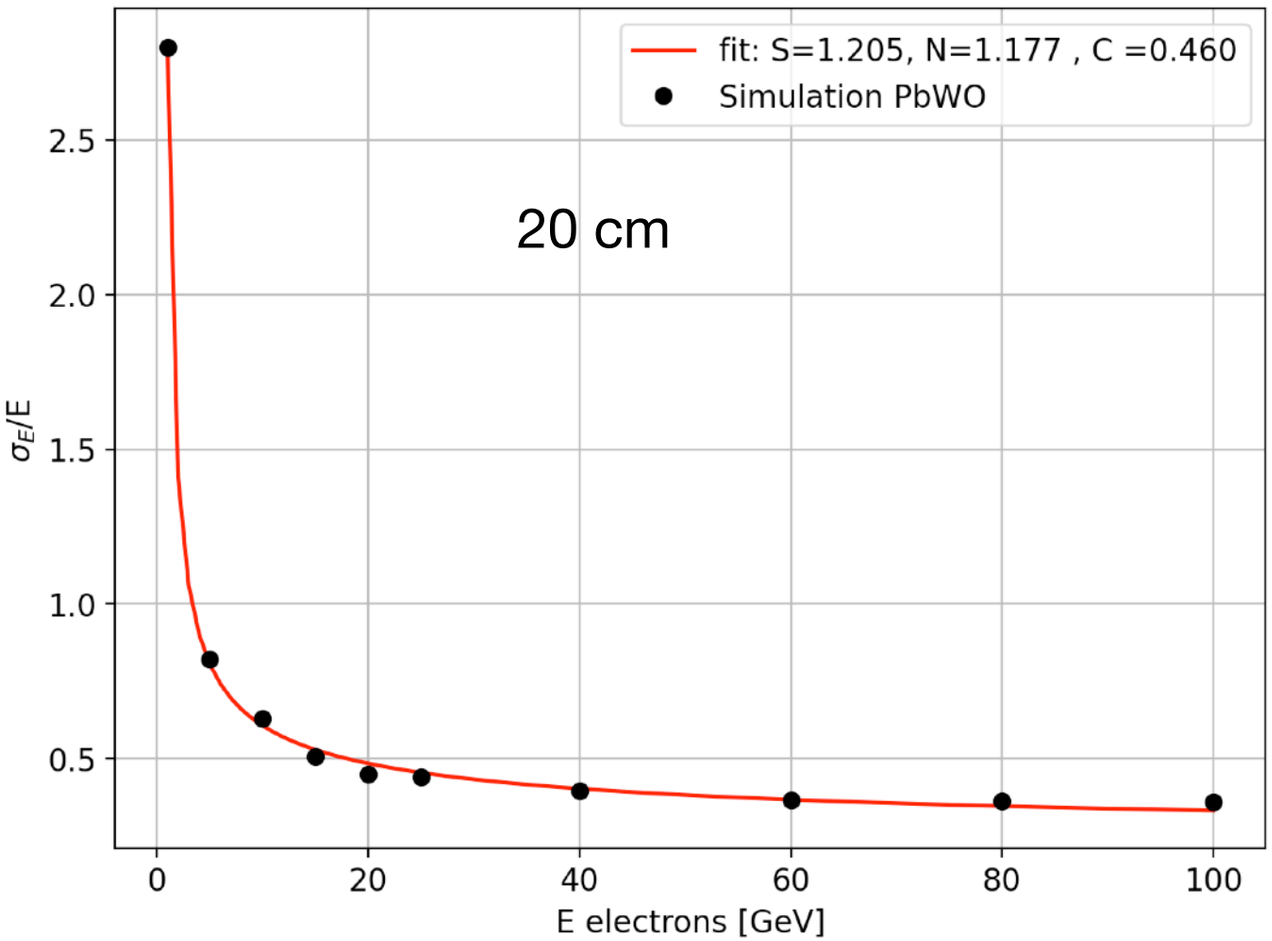
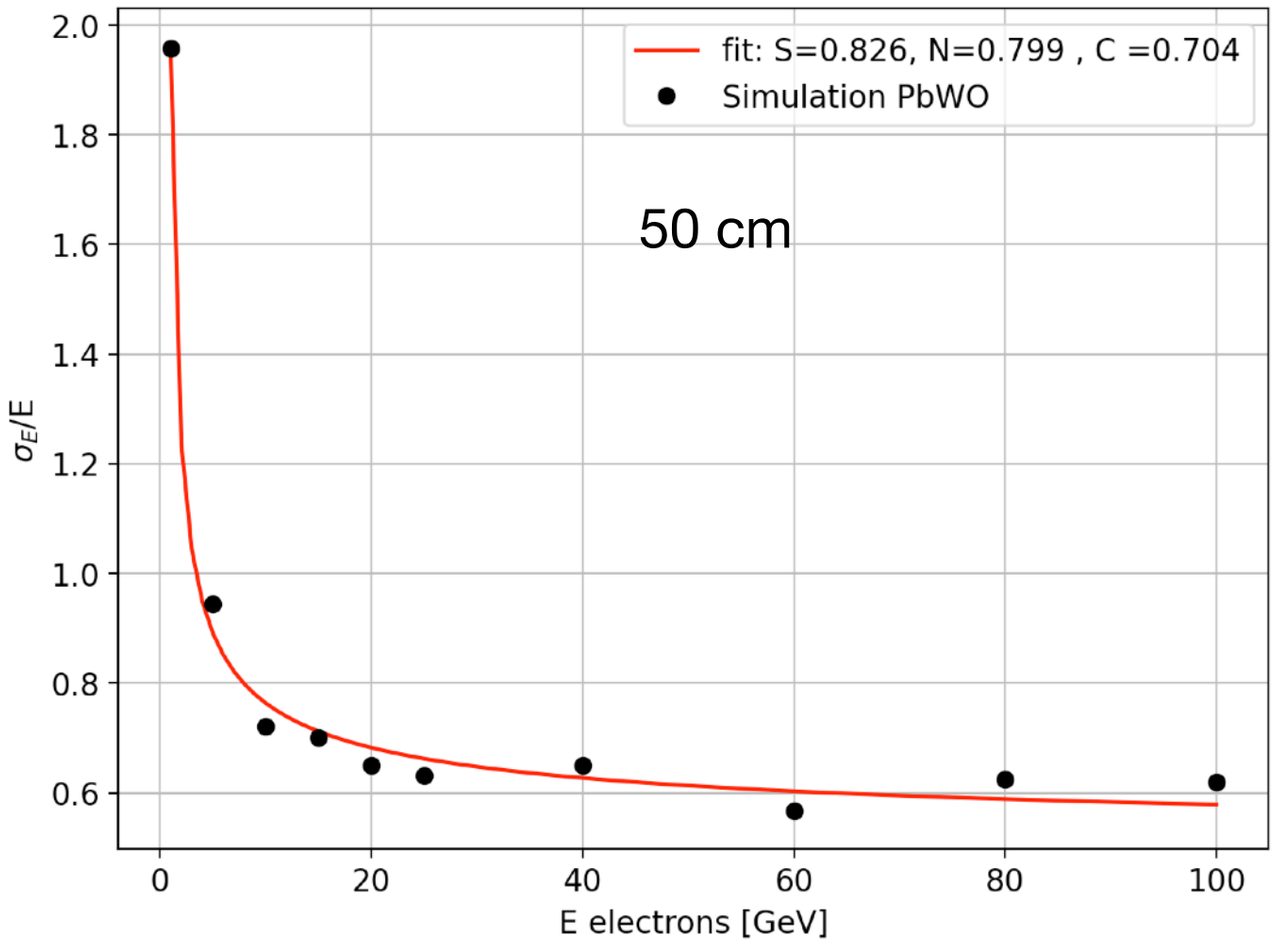
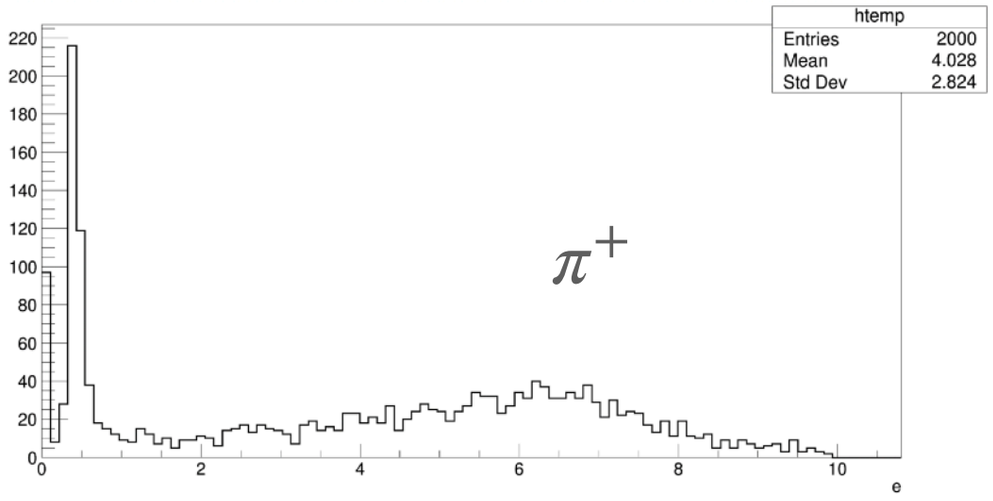
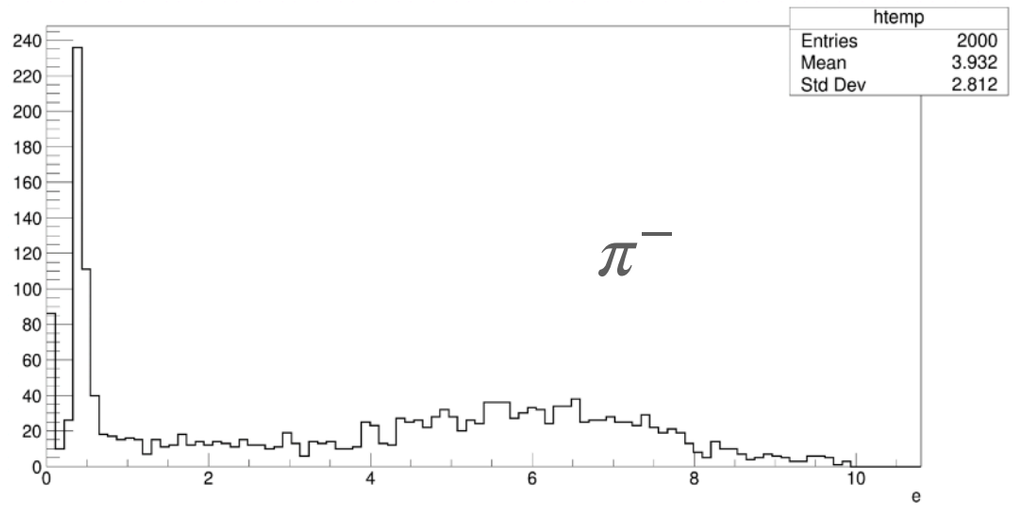
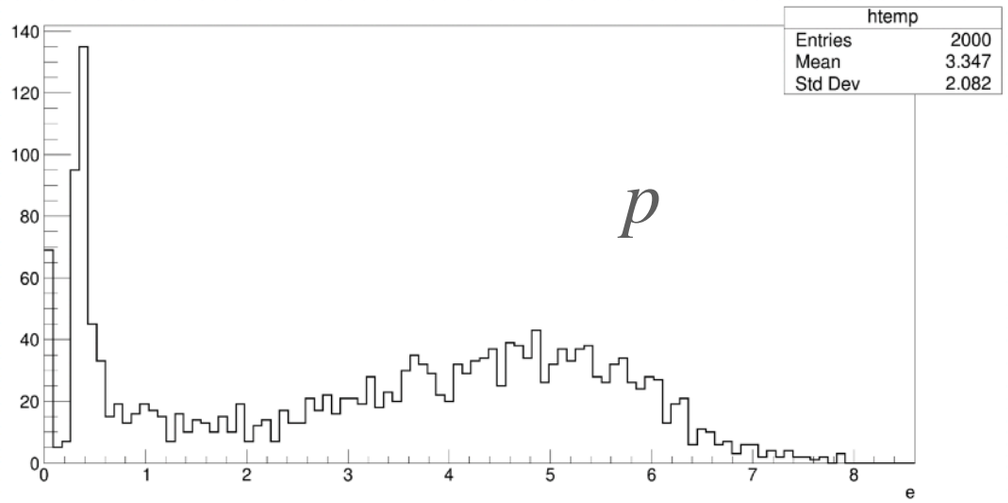


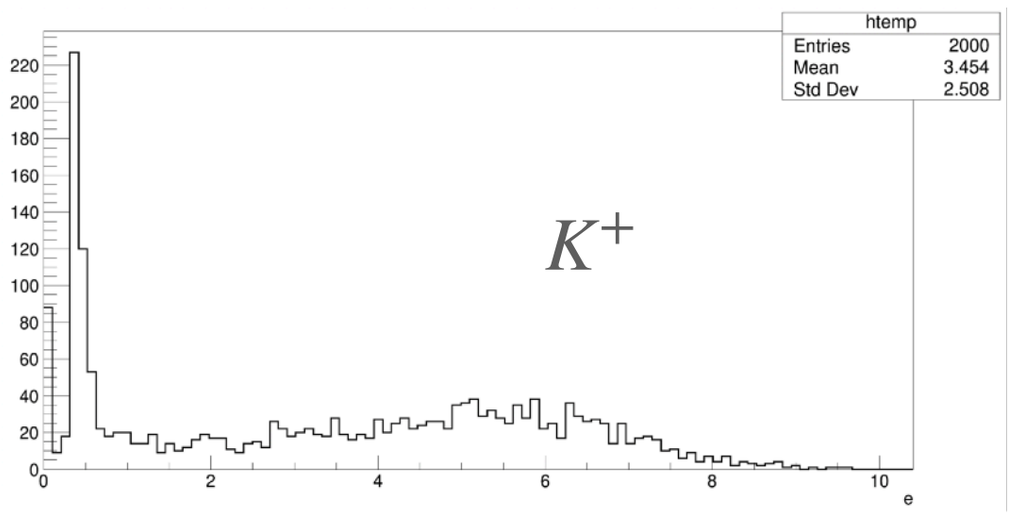


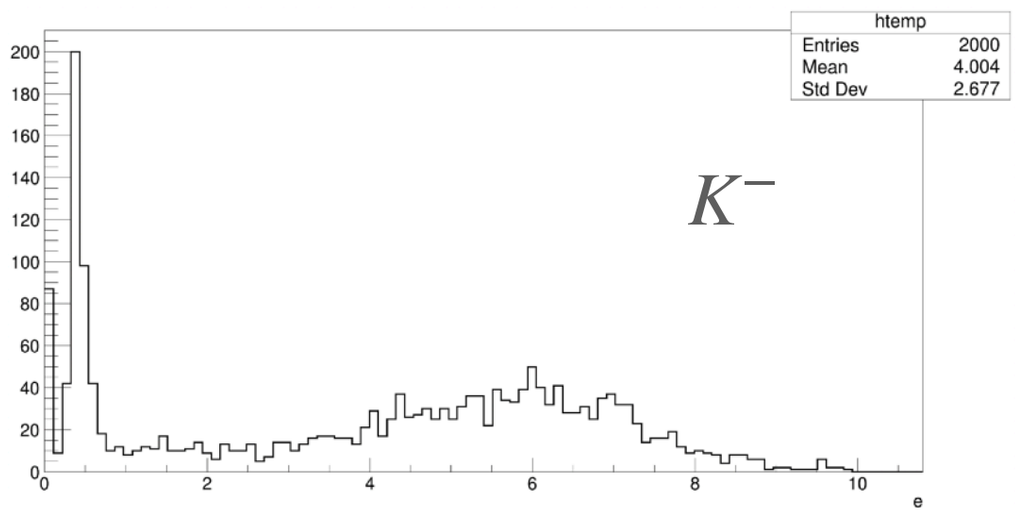
Hadrons Energy measured (from shower information)











Generating:

Simple Sample
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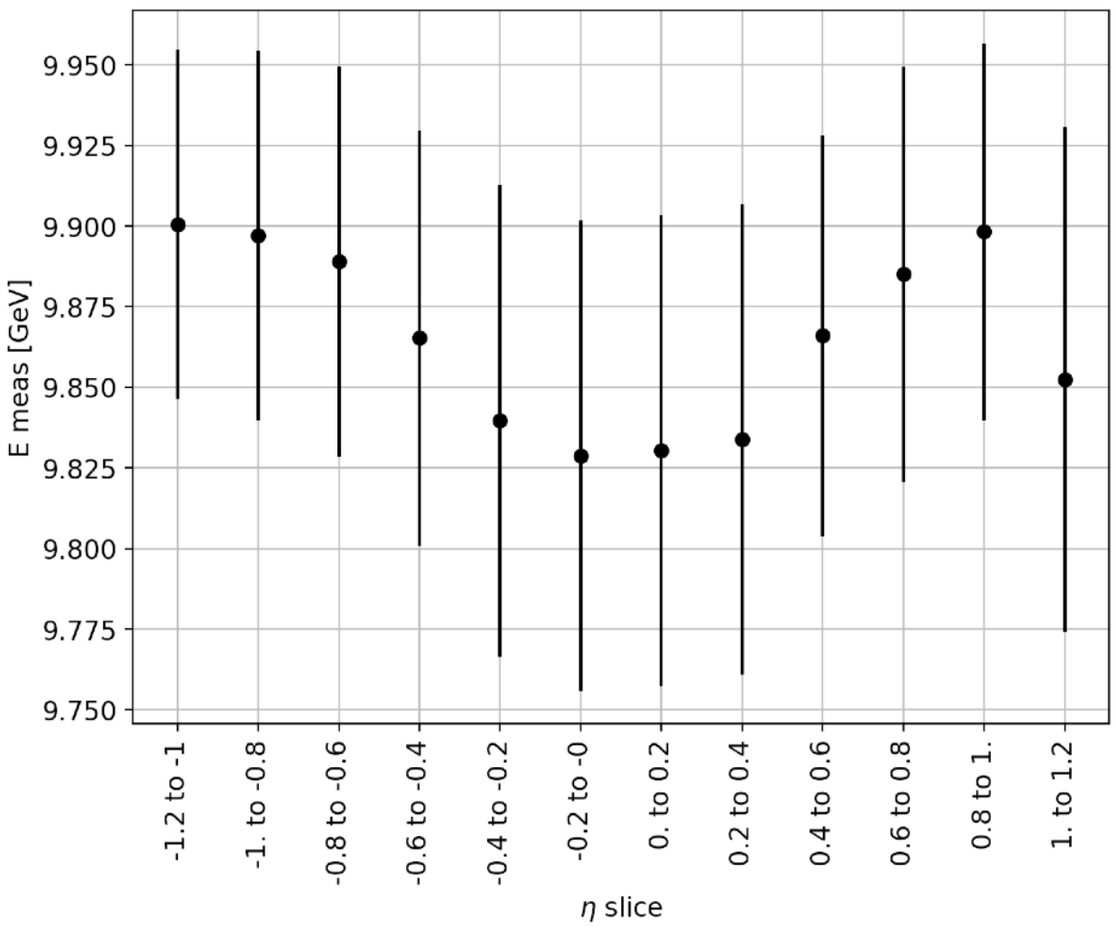
Slicing in η



Slicing in ϕ