

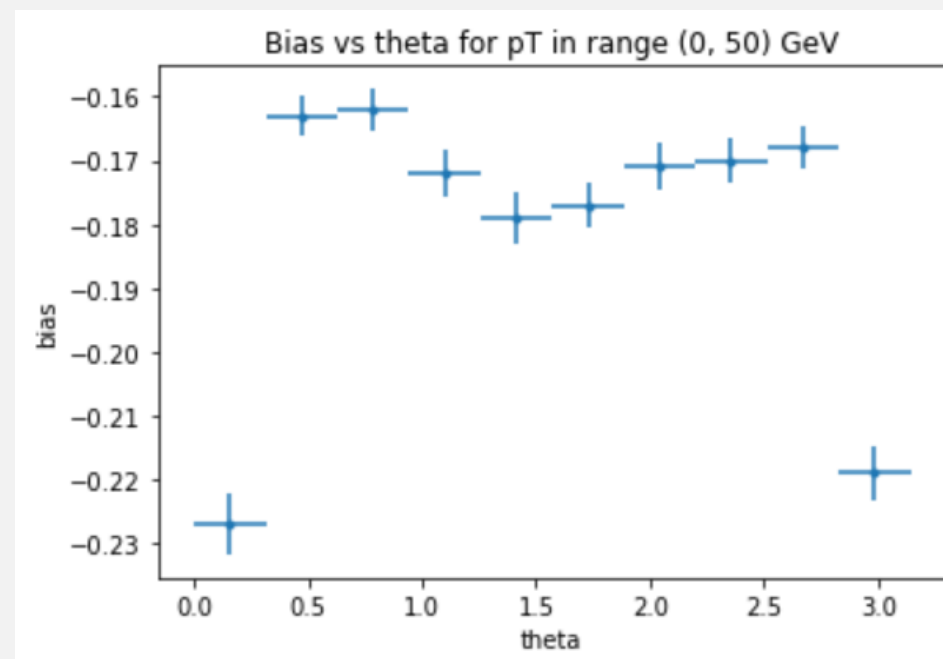
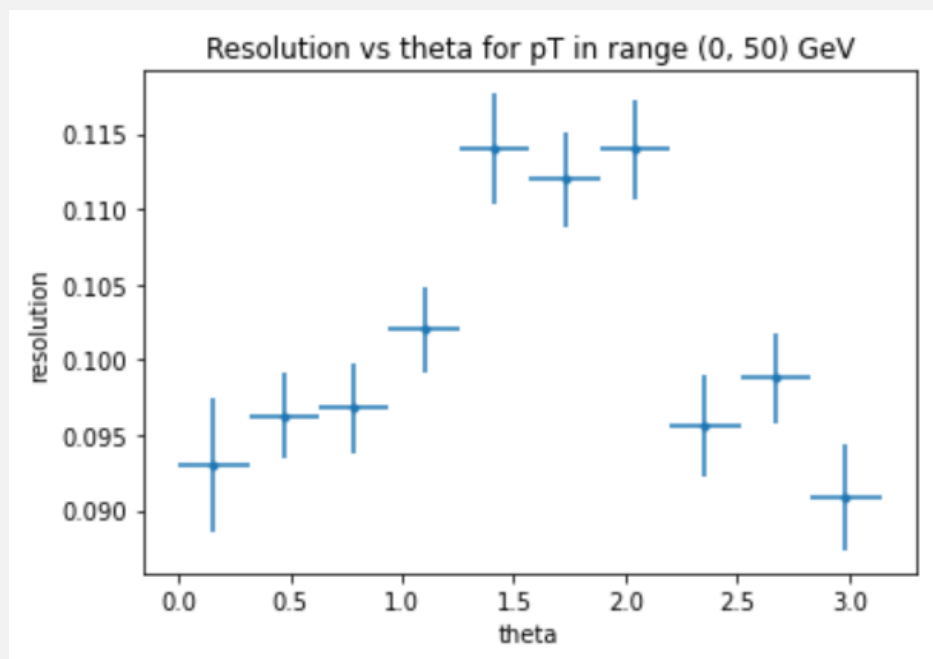
WEEKLY MEETING UPDATE

Junjia Zhang
Princeton University

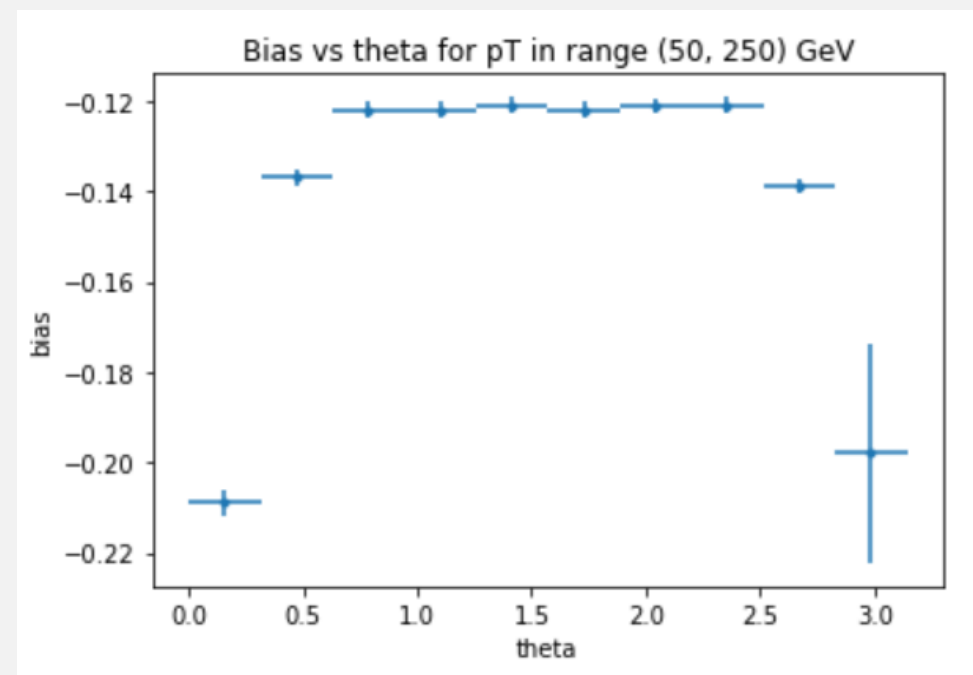
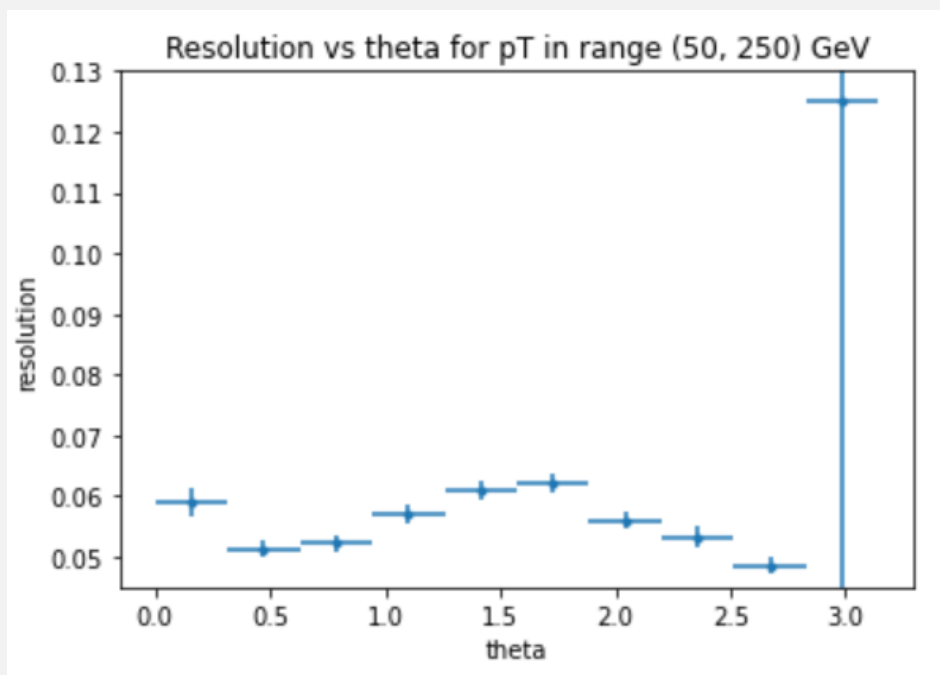
ENERGY RESOLUTION FOR SAMPLES WITHOUT BIB

- looked at samples updated by Dr. Meloni for v0A geometry without BIB, with pT in the range of 0-50GeV and 50-250GeV
- examined resolution vs theta angle, where the resolution is the standard deviation of the Gaussian fit to $(\text{clustered_energy} - \text{generator energy})/\text{generator energy}$
- took theta angle slices to be of width 0.1π (10 slices in total)

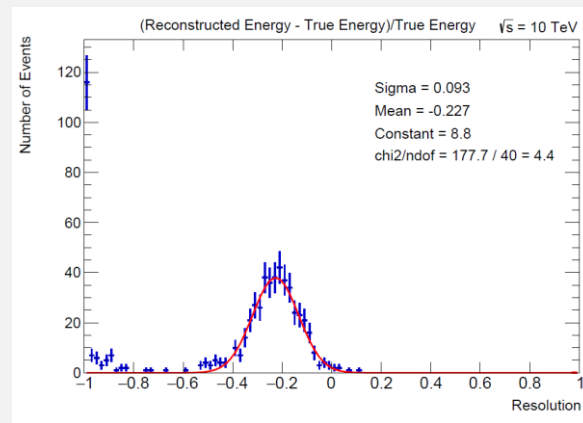
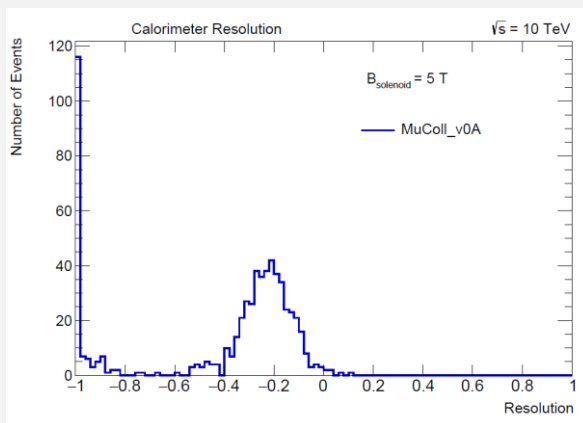
PT 0-50GeV



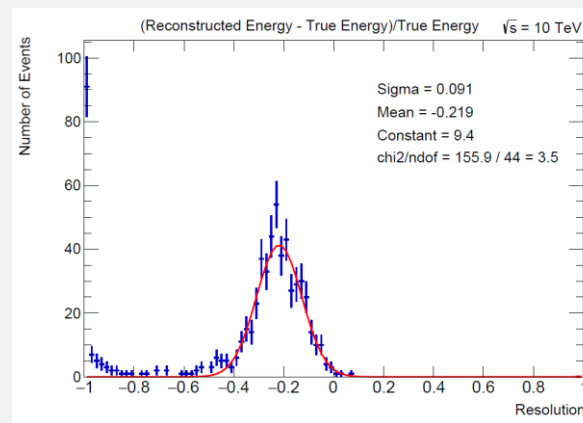
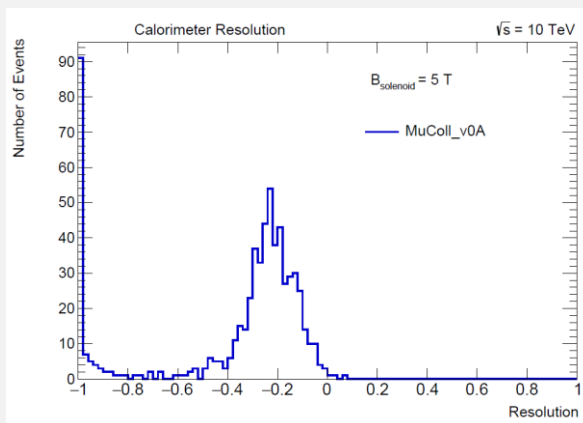
PT 50-250GeV



PT 0-50 GEV

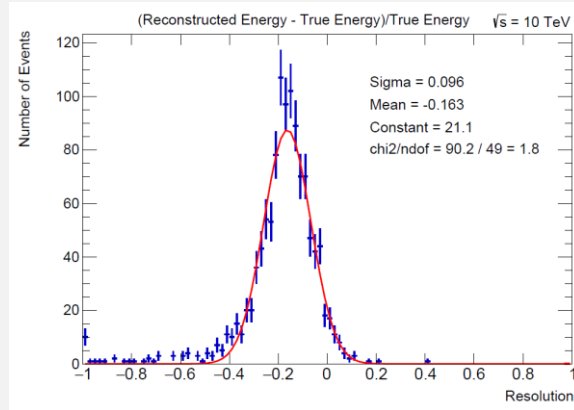
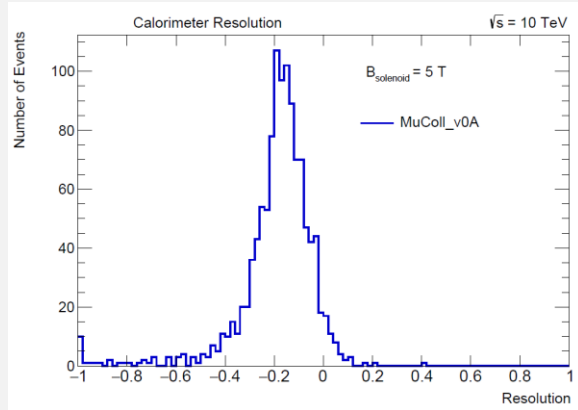


$$0 \leq \theta < 0.1\pi$$

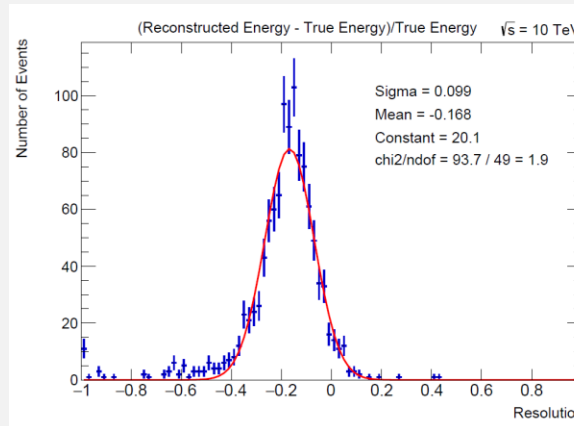
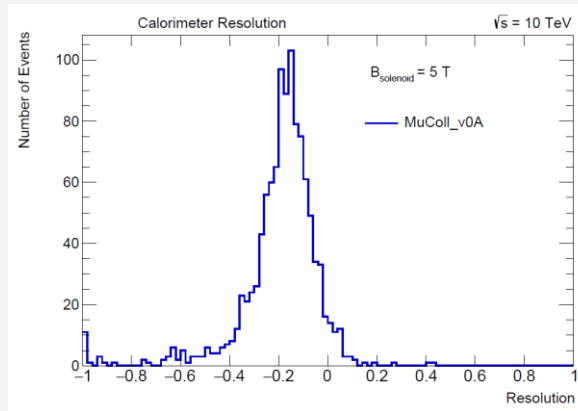


$$0.9\pi \leq \theta \leq \pi$$

PT 0-50 GEV

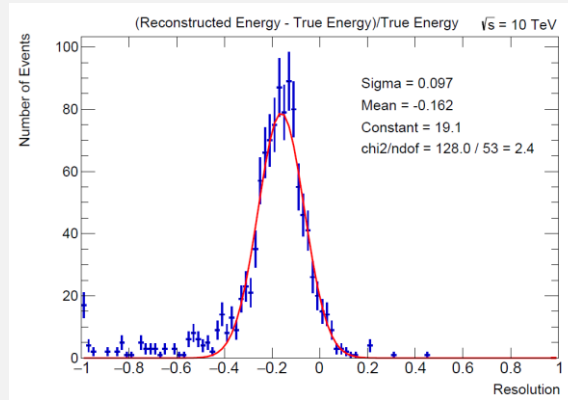
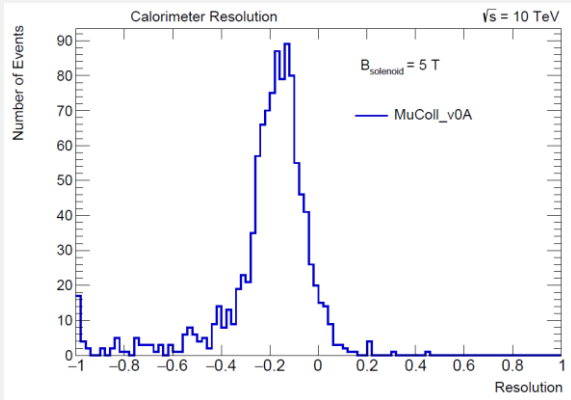


$$0.1\pi \leq \theta < 0.2\pi$$

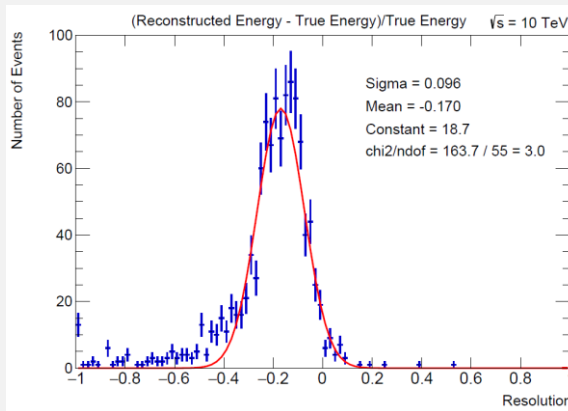
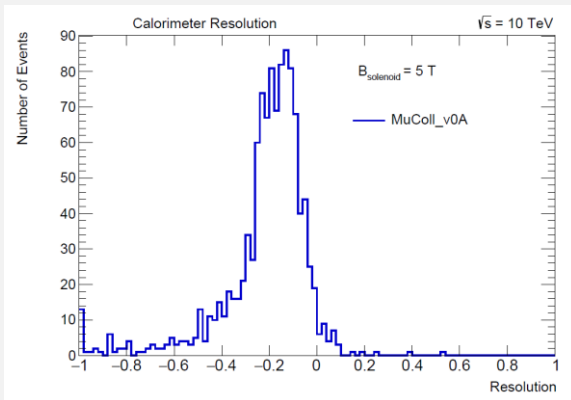


$$0.8\pi \leq \theta < 0.9\pi$$

PT 0-50 GEV

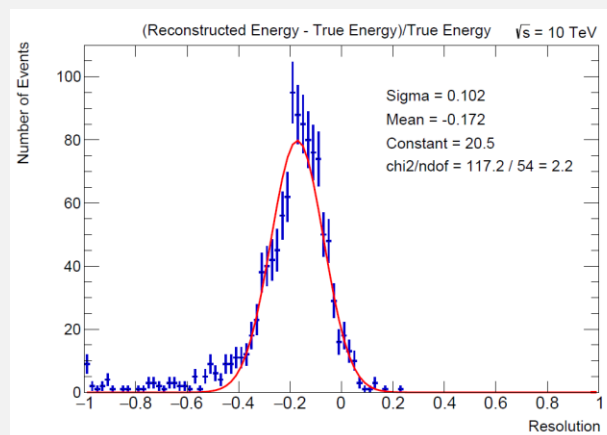
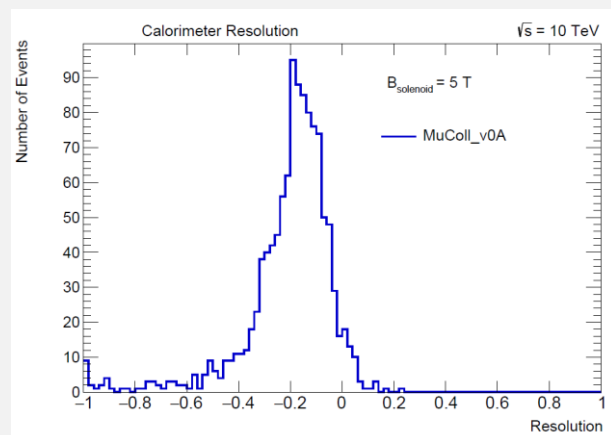


$$0.2\pi \leq \theta < 0.3\pi$$

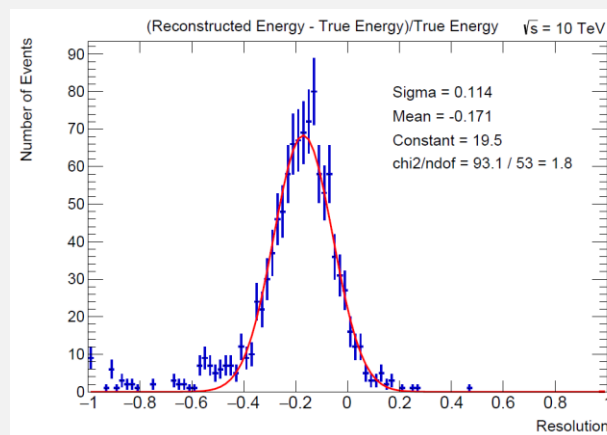
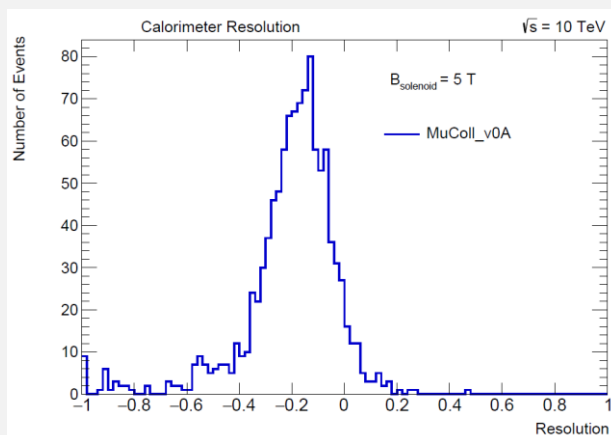


$$0.7\pi \leq \theta < 0.8\pi$$

PT 0-50 GEV

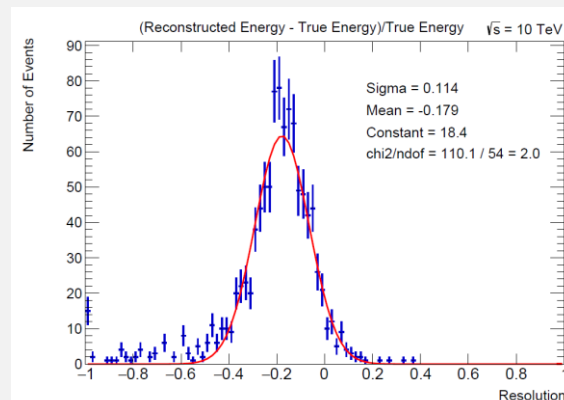
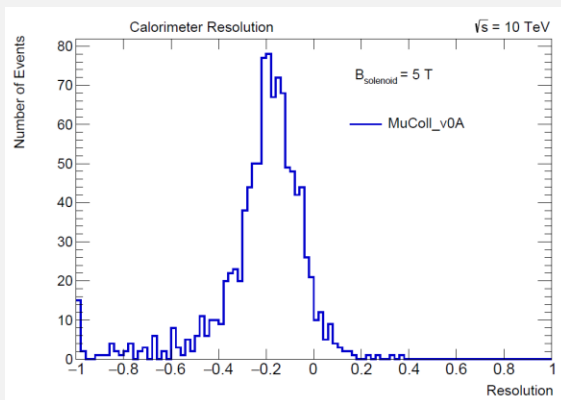


$$0.3\pi \leq \theta < 0.4\pi$$

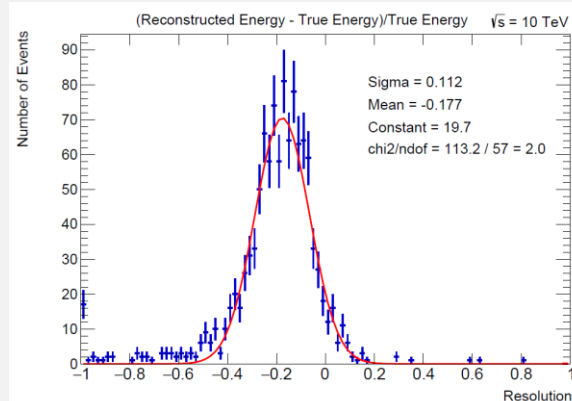
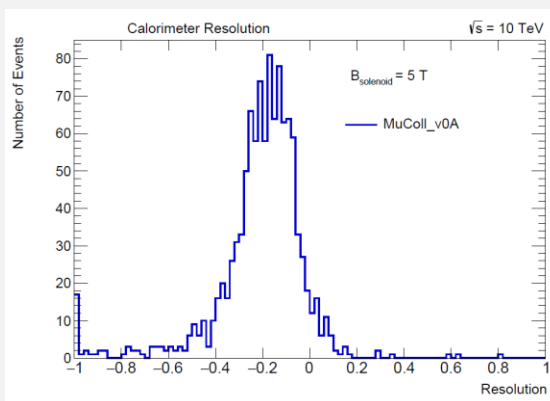


$$0.6\pi \leq \theta < 0.7\pi$$

PT 0-50 GEV

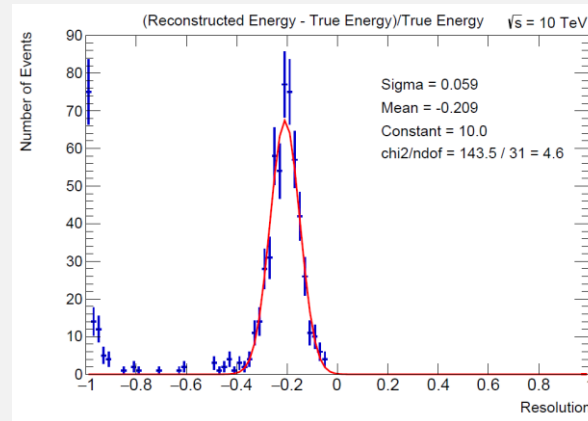
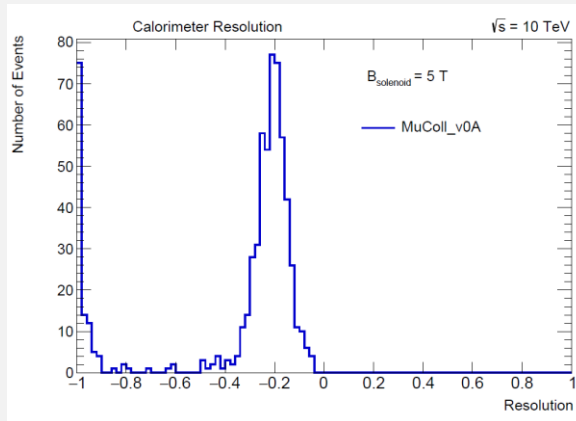


$$0.4\pi \leq \theta < 0.5\pi$$

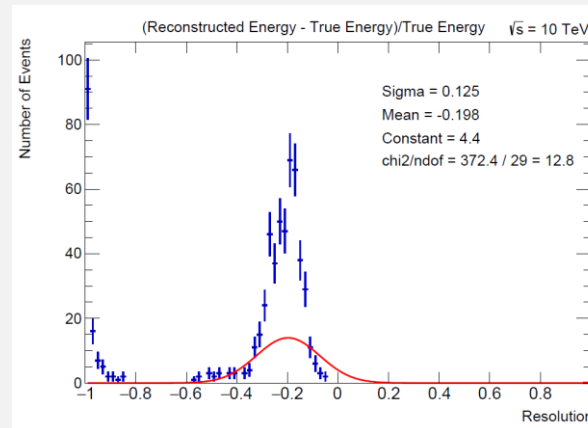
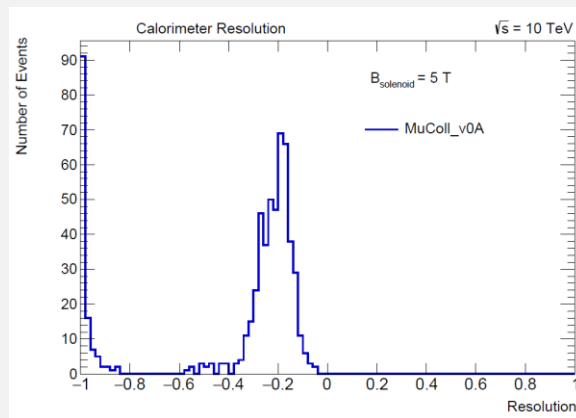


$$0.5\pi \leq \theta < 0.6\pi$$

PT 50-250 GEV

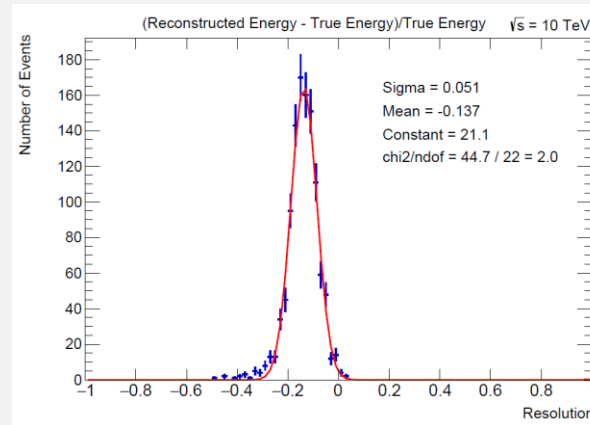
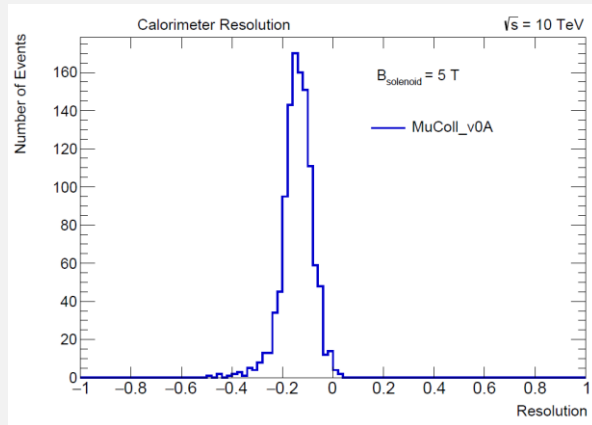


$$0 \leq \theta < 0.1\pi$$

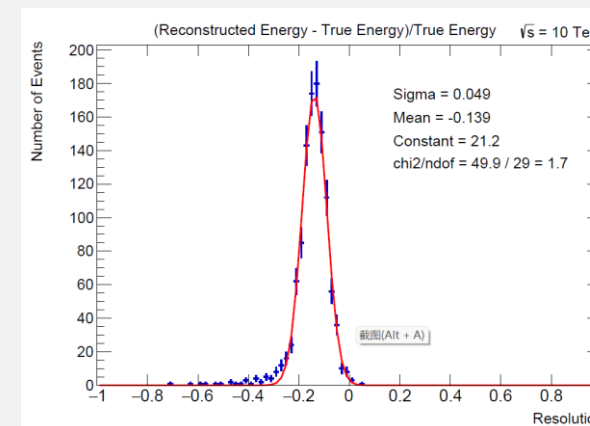
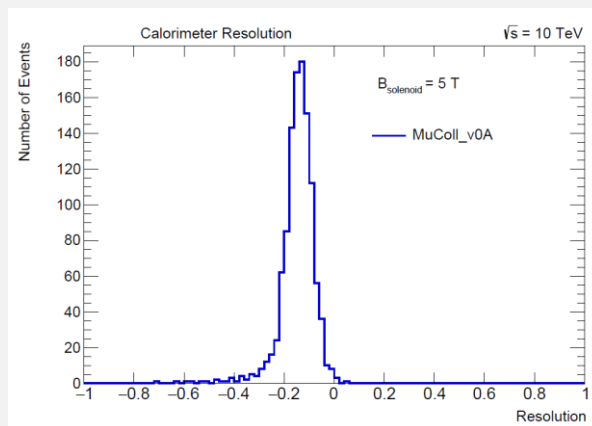


$$0.9\pi \leq \theta \leq \pi$$

PT 50-250 GEV

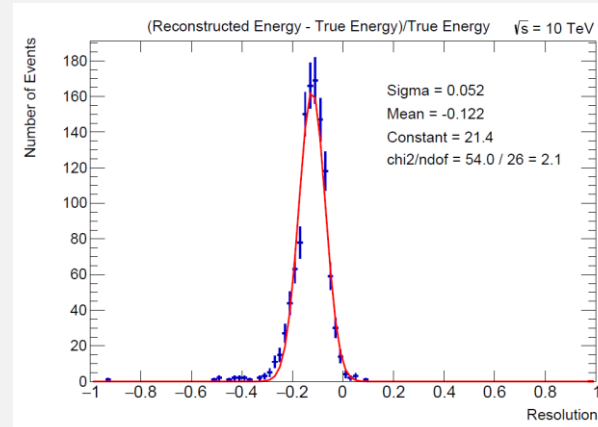
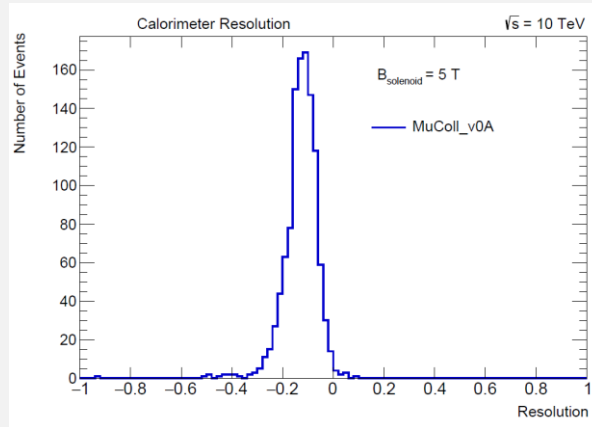


$$0.1\pi \leq \theta < 0.2\pi$$

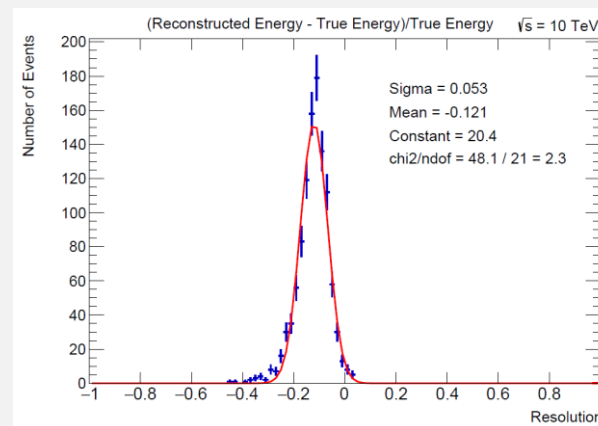
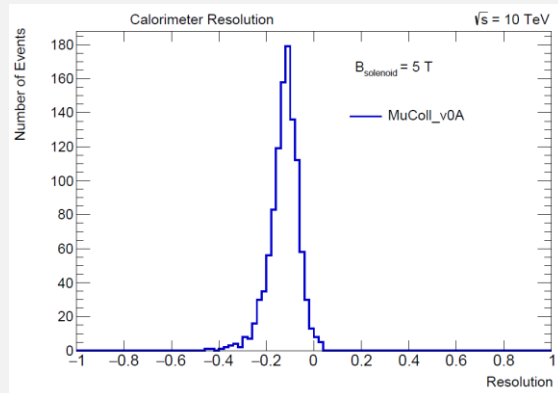


$$0.8\pi \leq \theta < 0.9\pi$$

PT 50-250 GEV

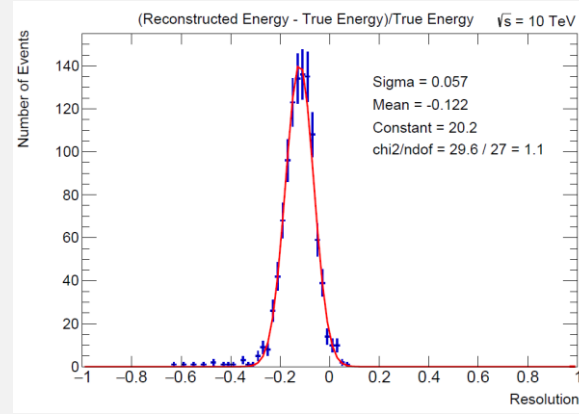
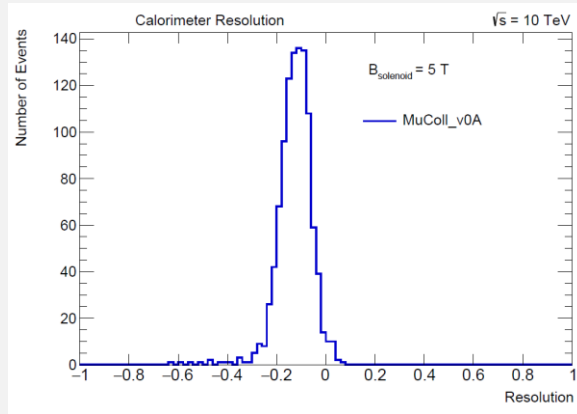


$$0.2\pi \leq \theta < 0.3\pi$$

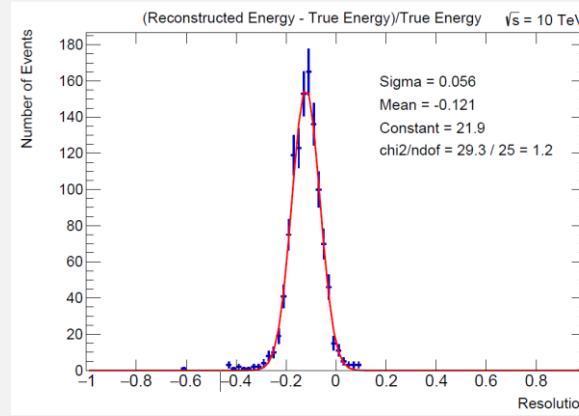
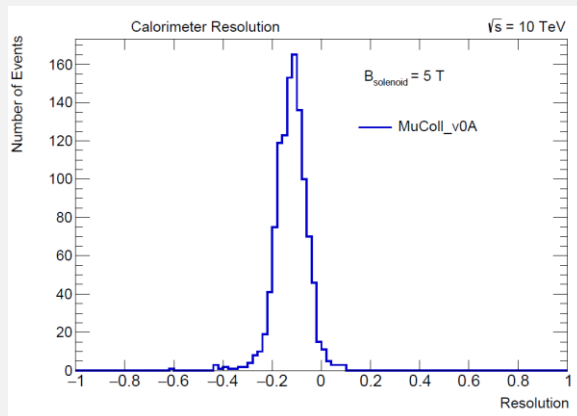


$$0.7\pi \leq \theta < 0.8\pi$$

PT 50-250 GEV

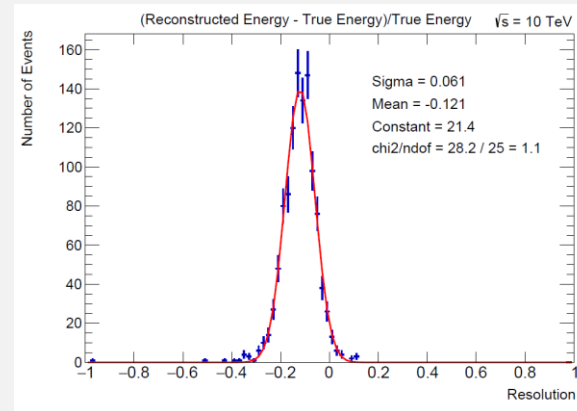
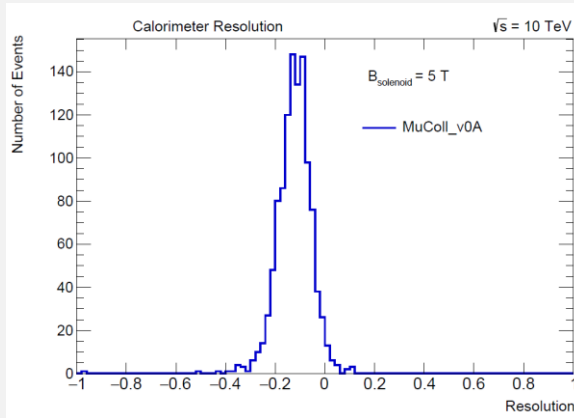


$$0.3\pi \leq \theta < 0.4\pi$$

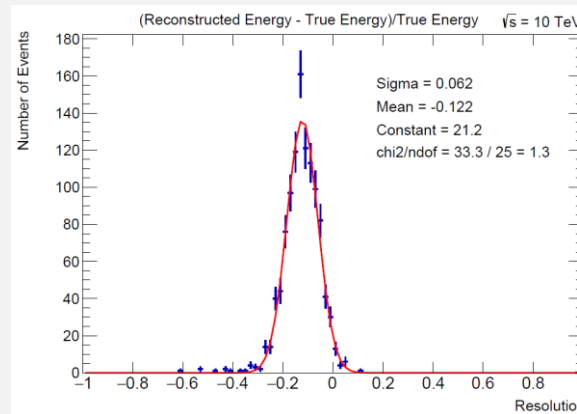
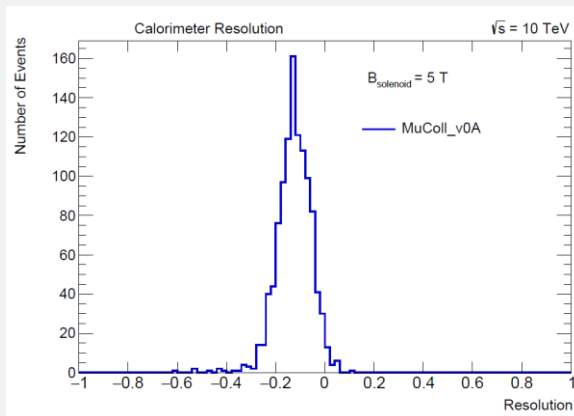


$$0.6\pi \leq \theta < 0.7\pi$$

PT 50-250 GEV



$$0.4\pi \leq \theta < 0.5\pi$$



$$0.5\pi \leq \theta < 0.6\pi$$