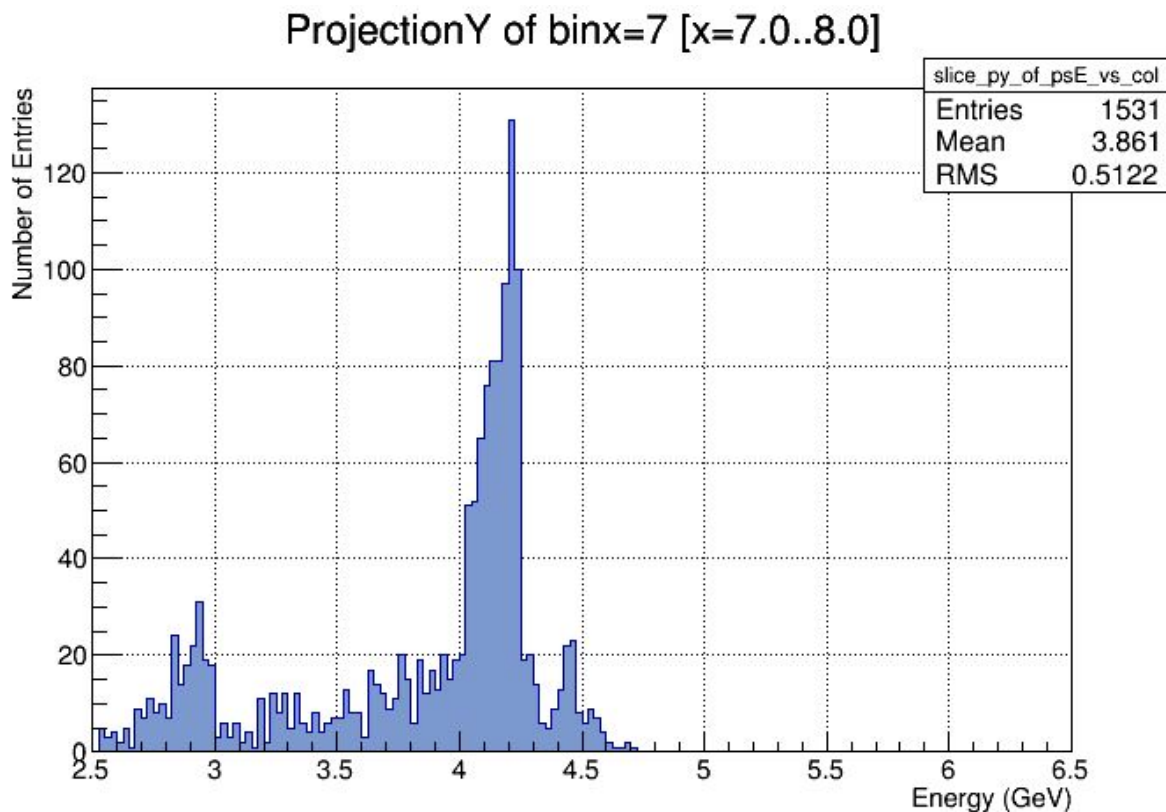


# PS-Tagger Energy Calibration Progress

## Cuts and requirements for Run 3185

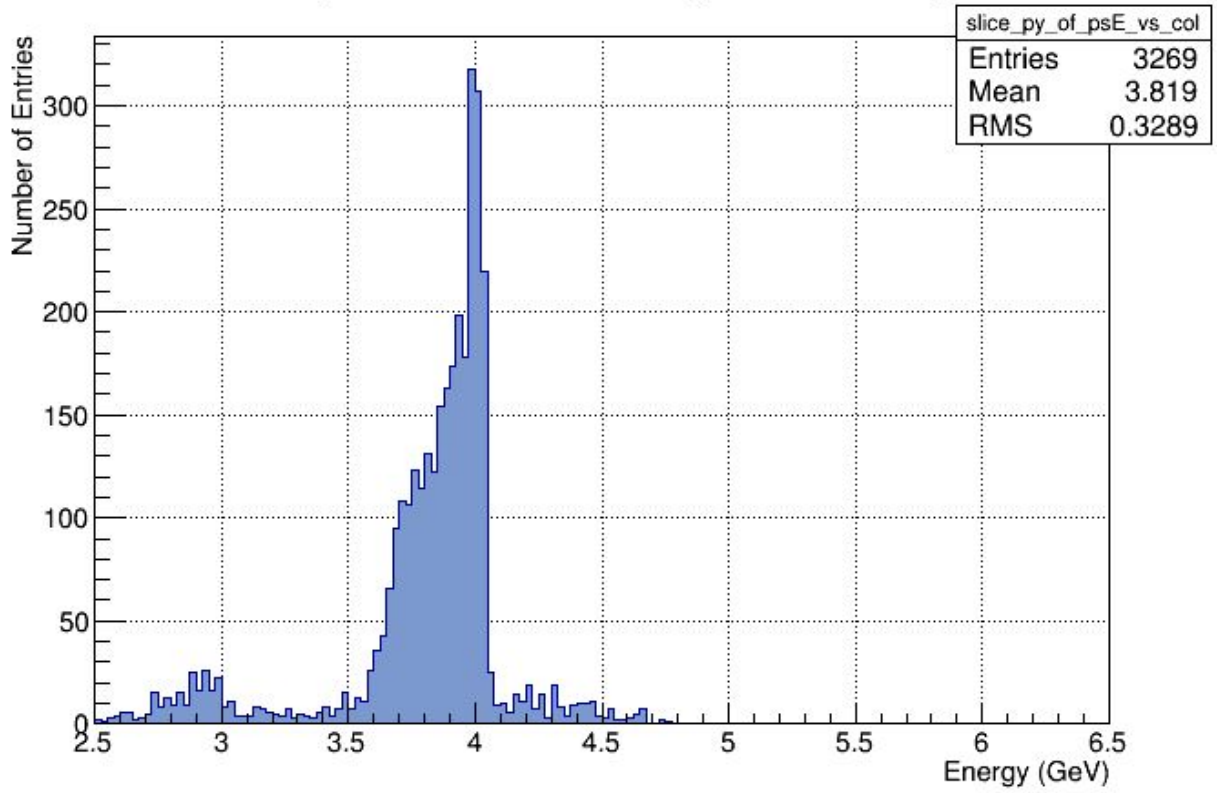
- A PS pair hit is required
- If there is a PS pair hit then loop over all TAGM hits for each PS pair hit
- Require that TAGM has both an ADC and TDC
- Require that the row=0 to use only the summed outputs
- Require that the time difference between PS and TAGM be +/- 5ns.

The a few example pair spectrometer energy distributions for a given tagger microscope column can be seen below. Each distribution shows a sharp peak at the high energy edge with a tail on the low energy side. This wide tail is being investigated and further updates will be forthcoming. One aspect being looked into is the asymmetry of the pair energies.



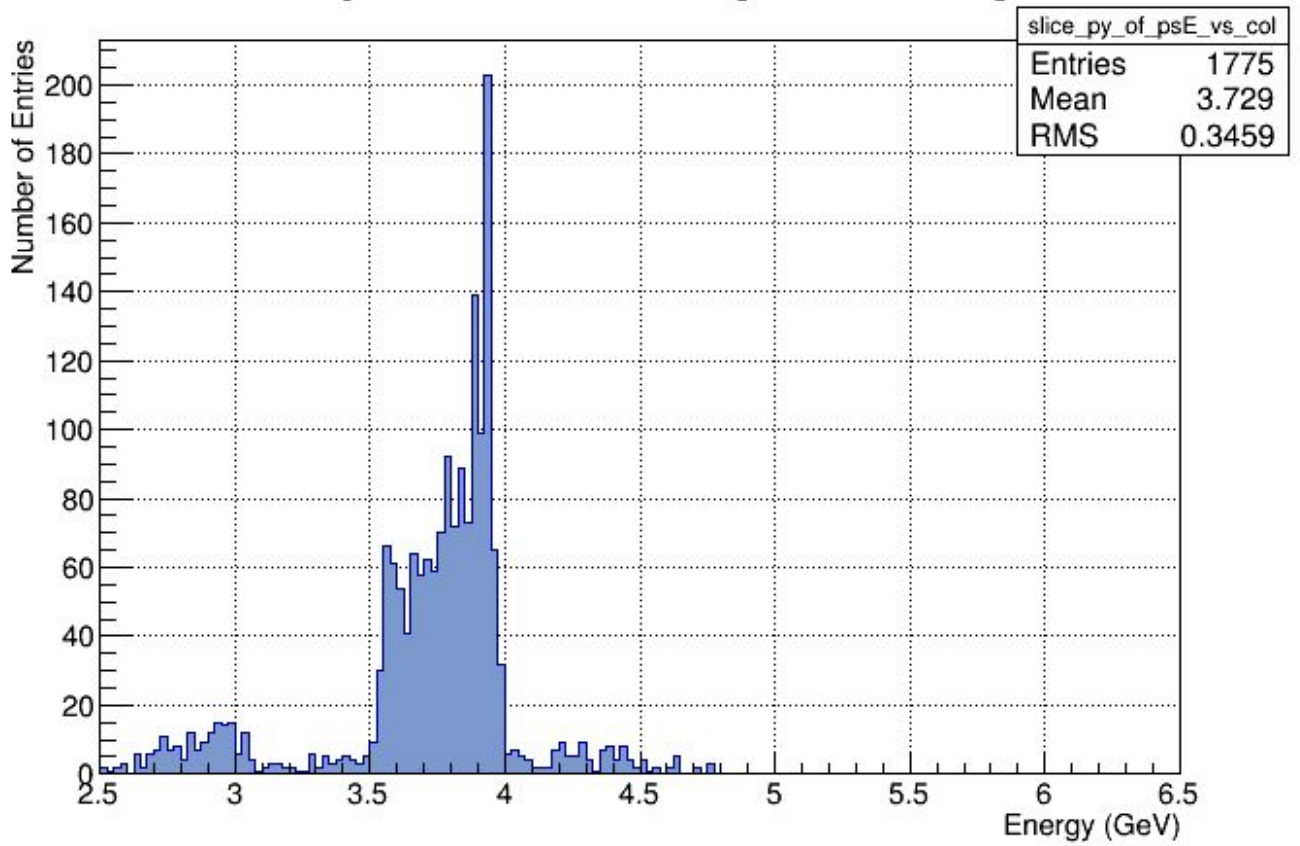
Projection of the PS energy for TAGM column 7

### ProjectionY of binx=66 [x=66.0..67.0]



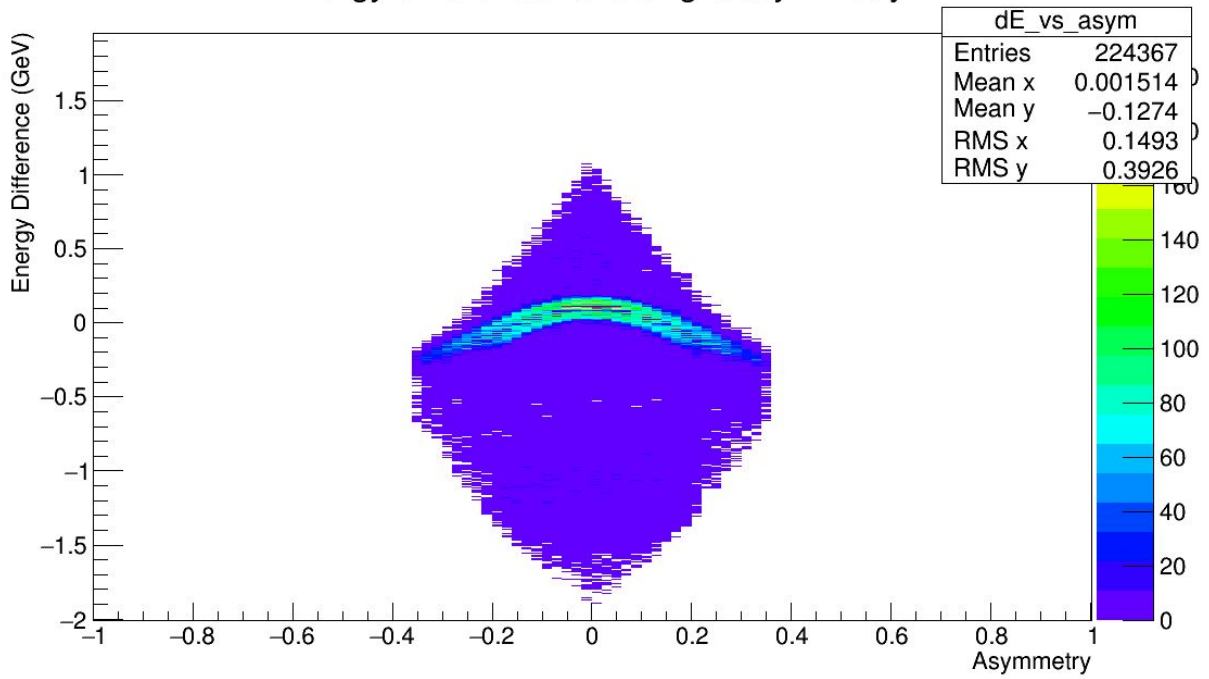
Projection of the PS energy for TAGM column 66

### ProjectionY of binx=84 [x=84.0..85.0]



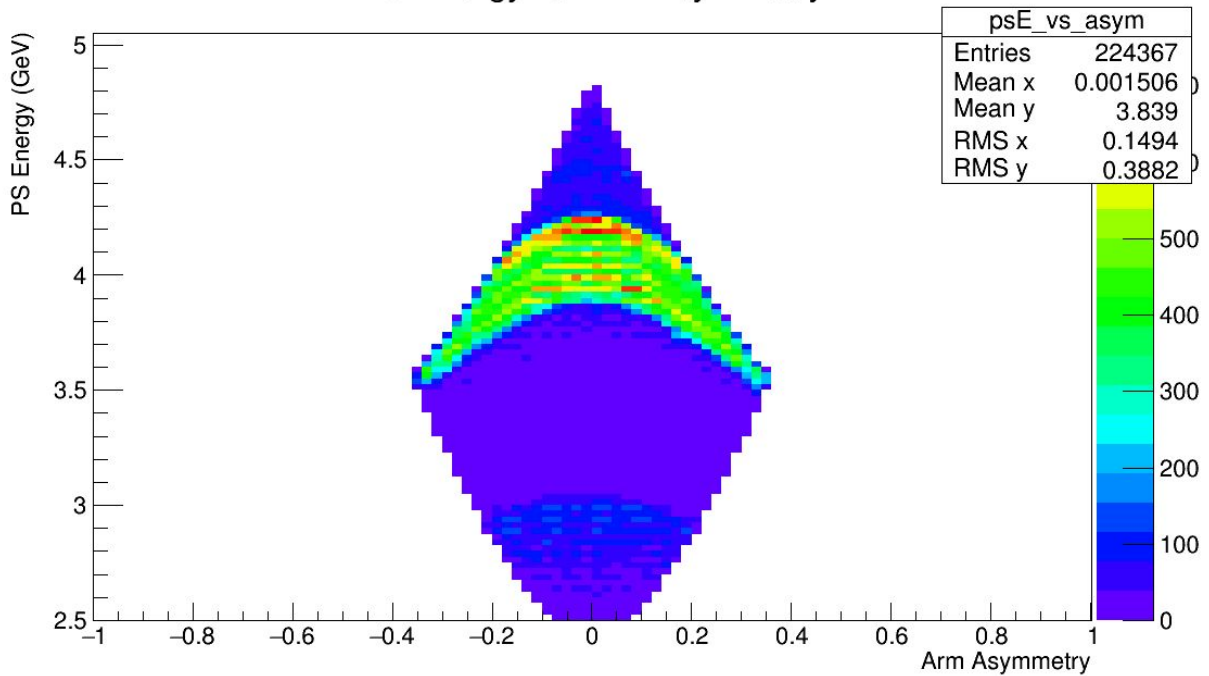
Projection for PS energy for TAGM column 84

### Energy difference vs left/right asymmetry



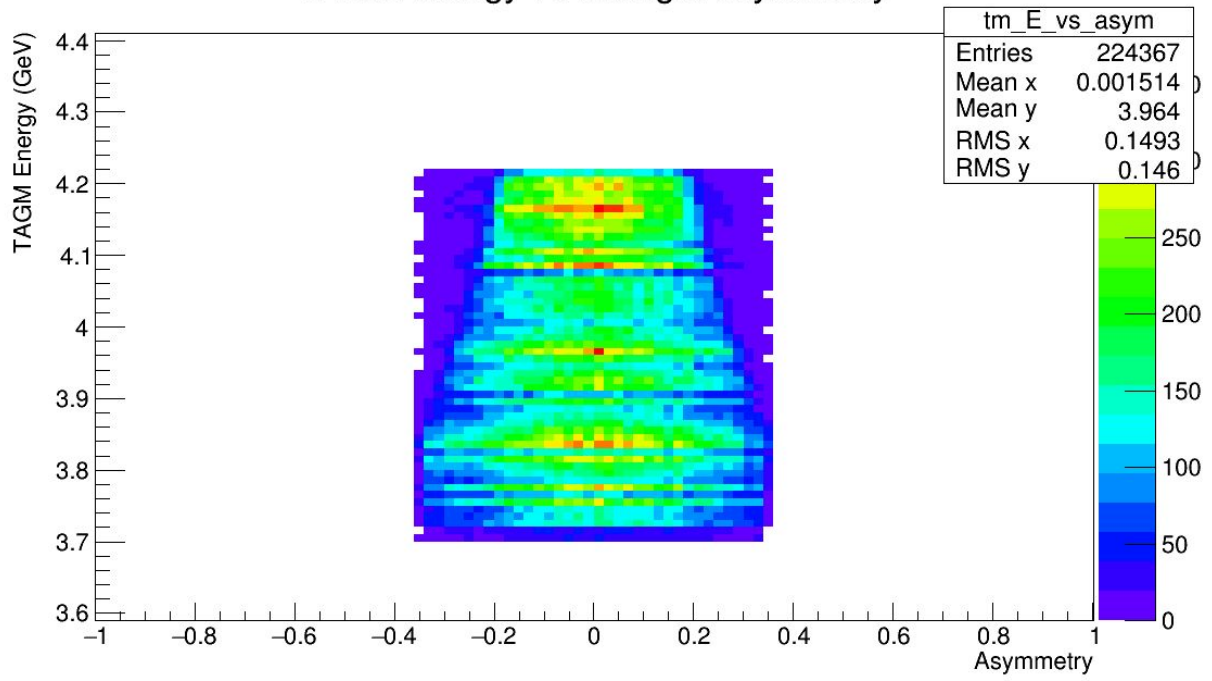
The energy difference (PS - TAGM) is plotted against the pair energy asymmetry.

### PS Energy vs Arm Asymmetry



The PS energy is plotted against the pair energy asymmetry.

# TAGM energy vs left/right asymmetry



The TAGM energy is plotted against the pair energy asymmetry