

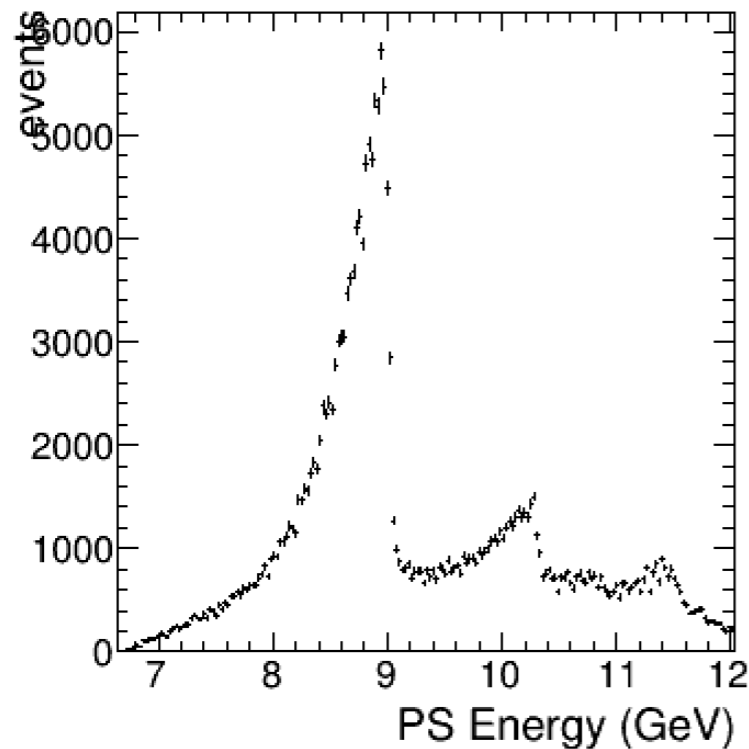
Polarization and PS Flux

Justin Stevens
May 23, 2016

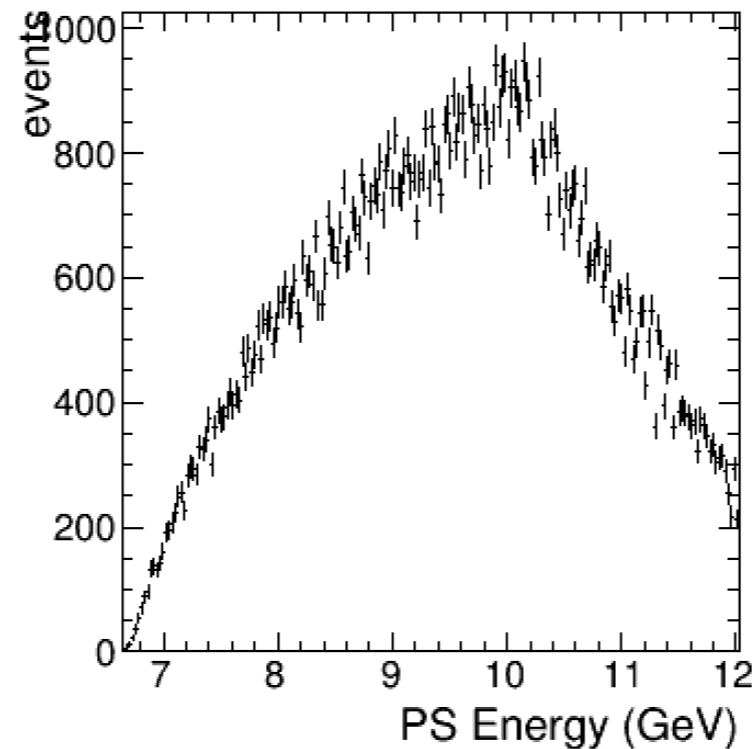


CBSA Fit to PS enhancement

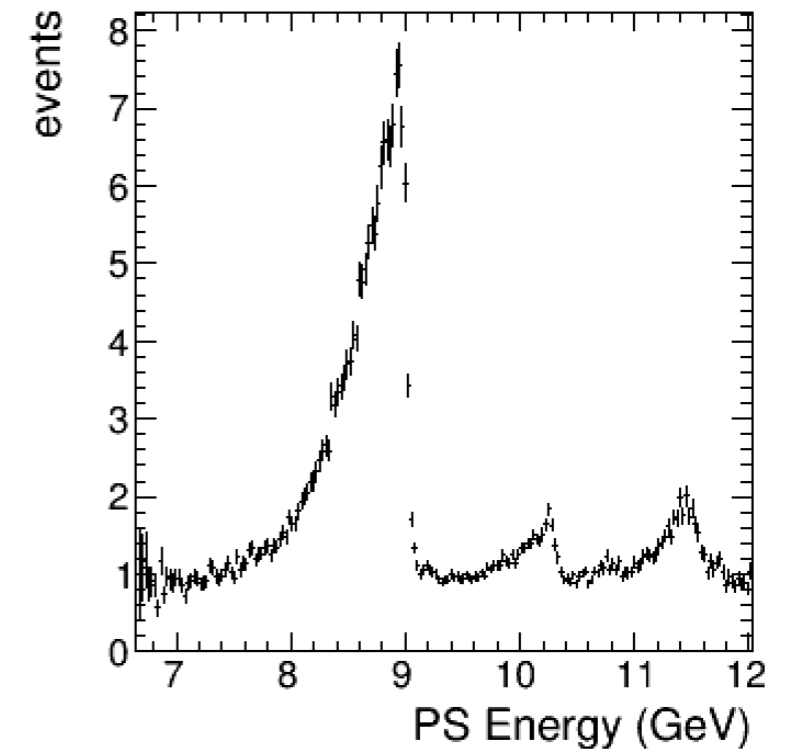
Diamond: 10430



Amorph: 10434

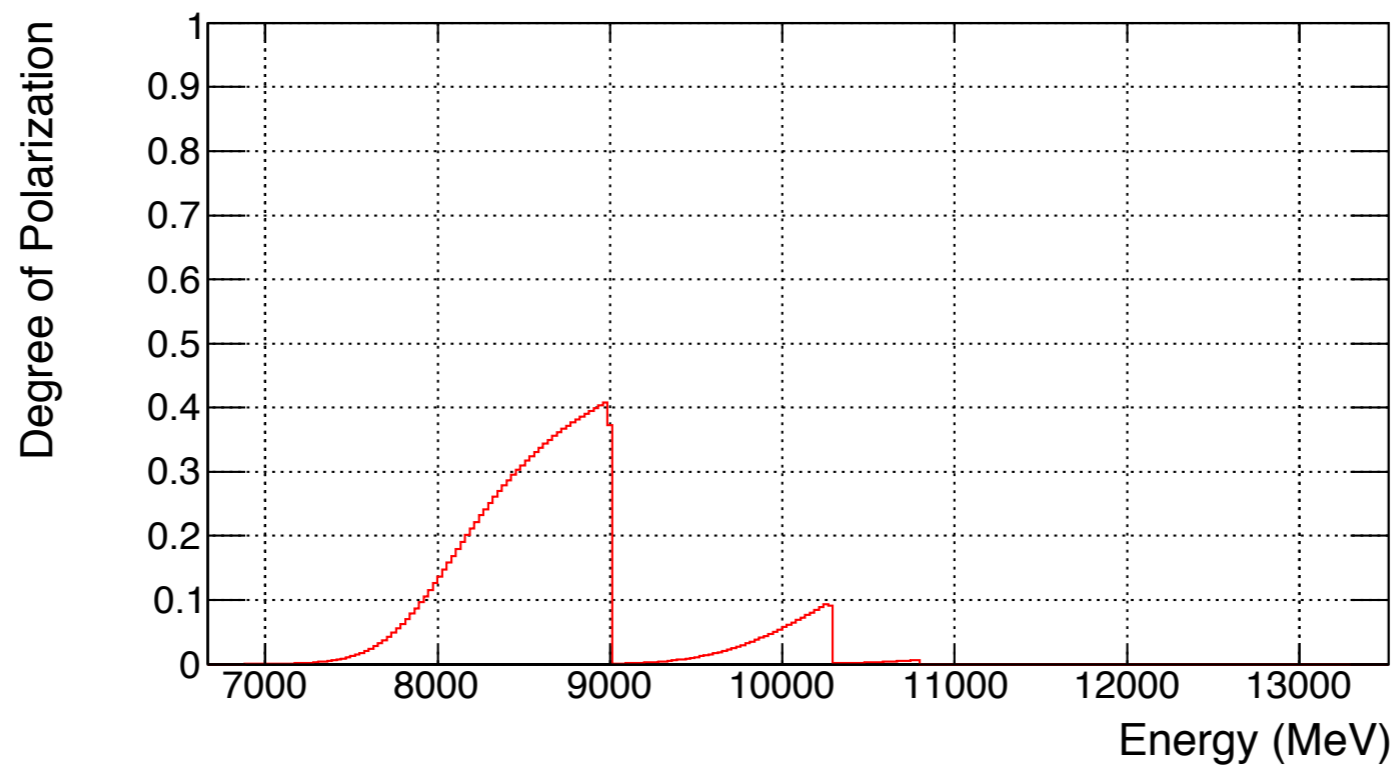
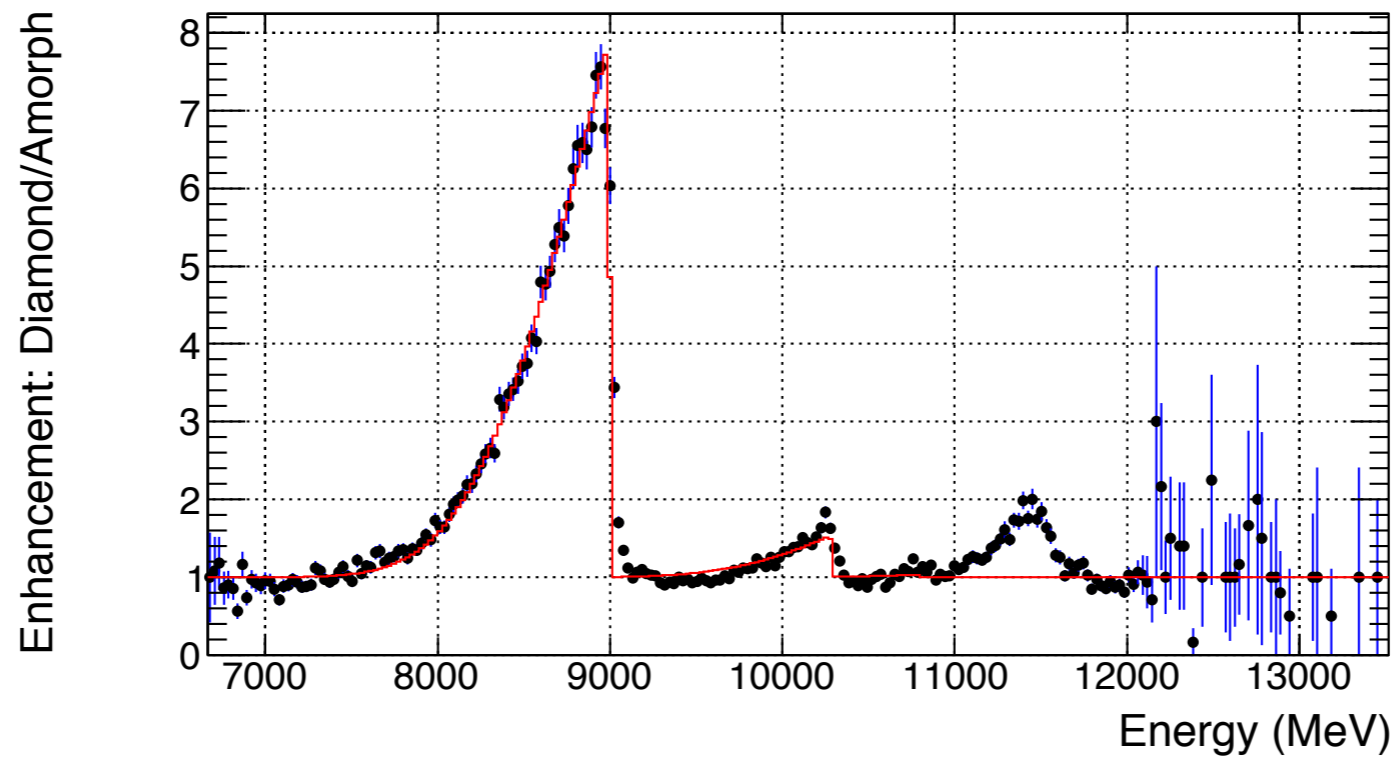


Diamond/Amorph



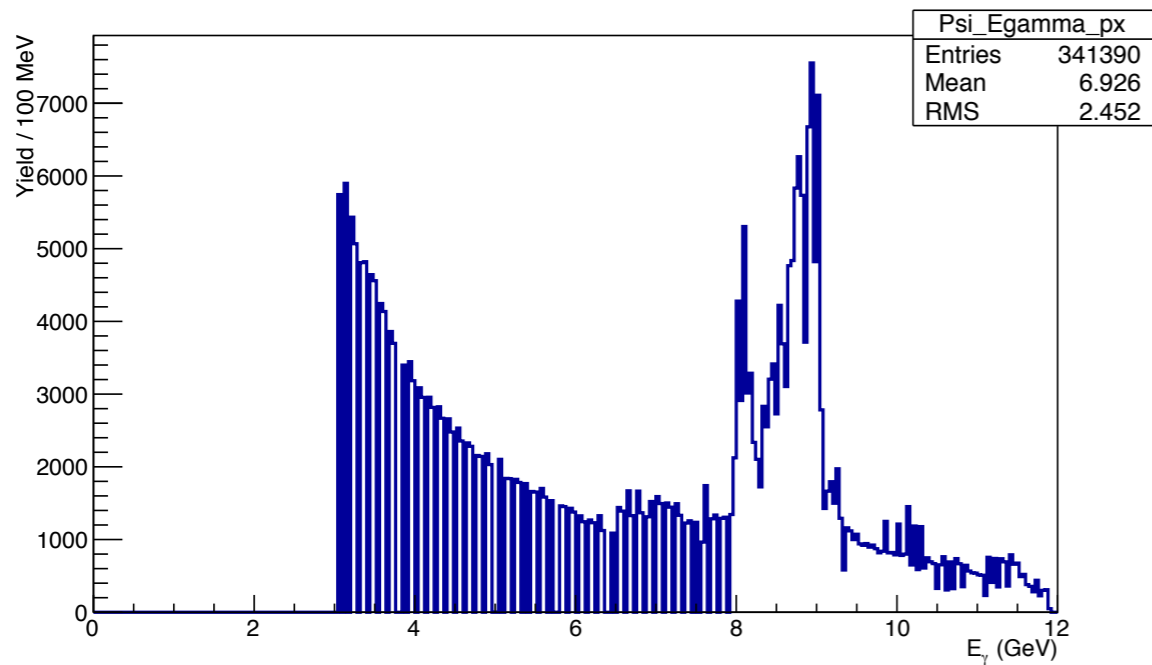
- ✱ Focusing on first priority runs 11347-11555
- ✱ PS Pair match between coarse and fine counters
- ✱ No requirement here for associated hit in tagger

CBSA Fit to PS enhancement

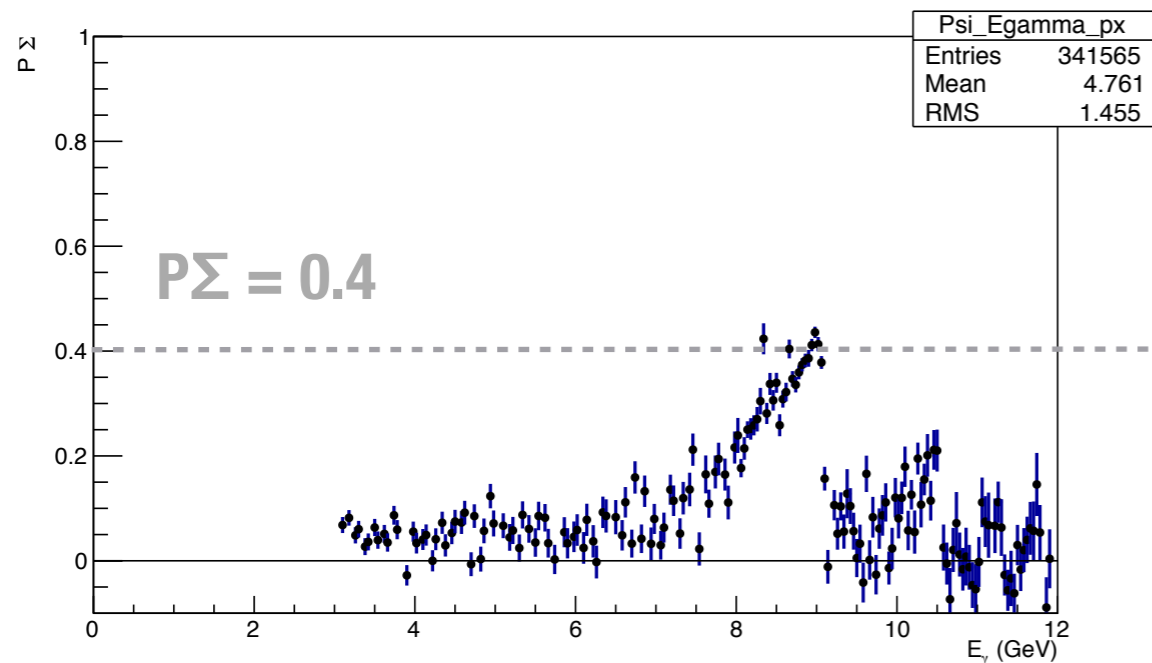
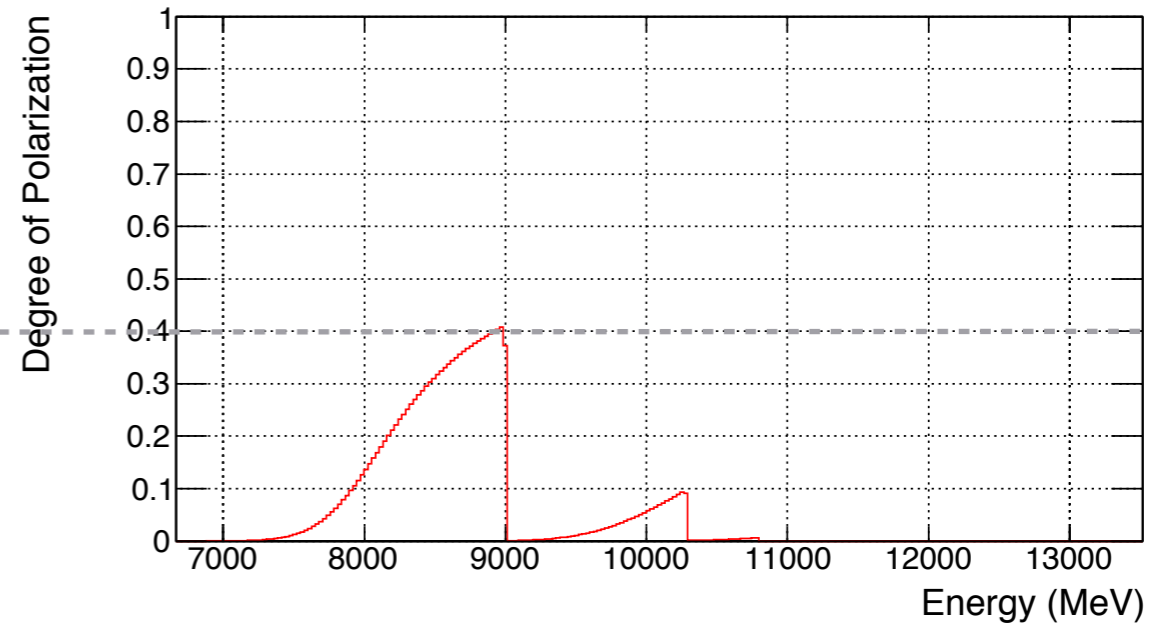
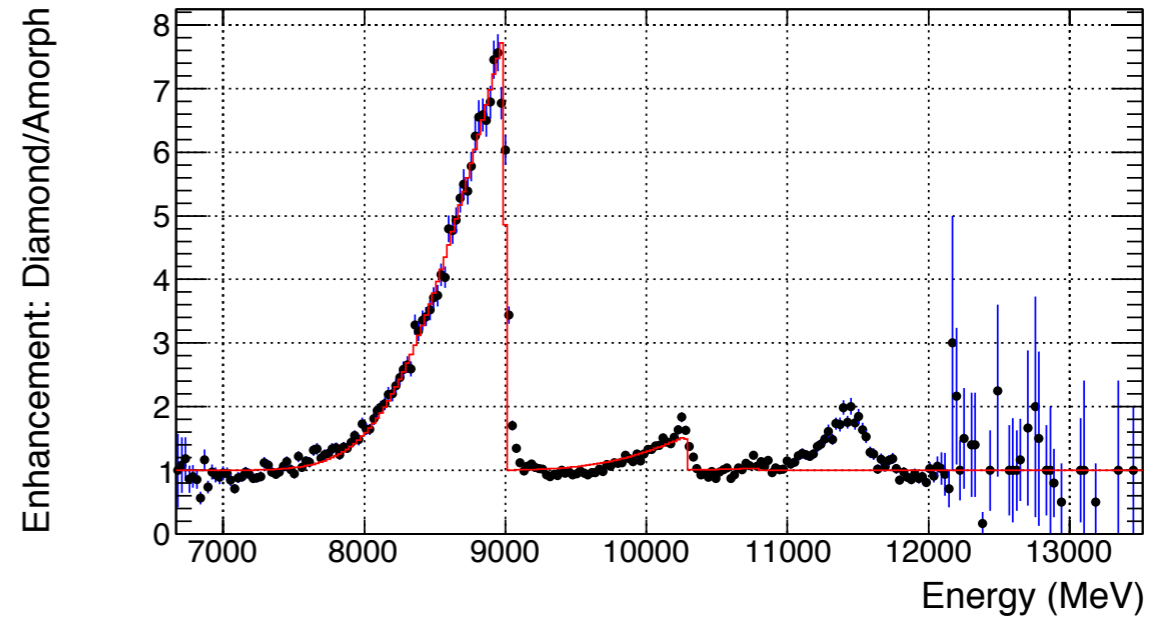


ρ asymmetry vs CBSA

ρ yield and asymmetry vs E_γ



CBSA Fit



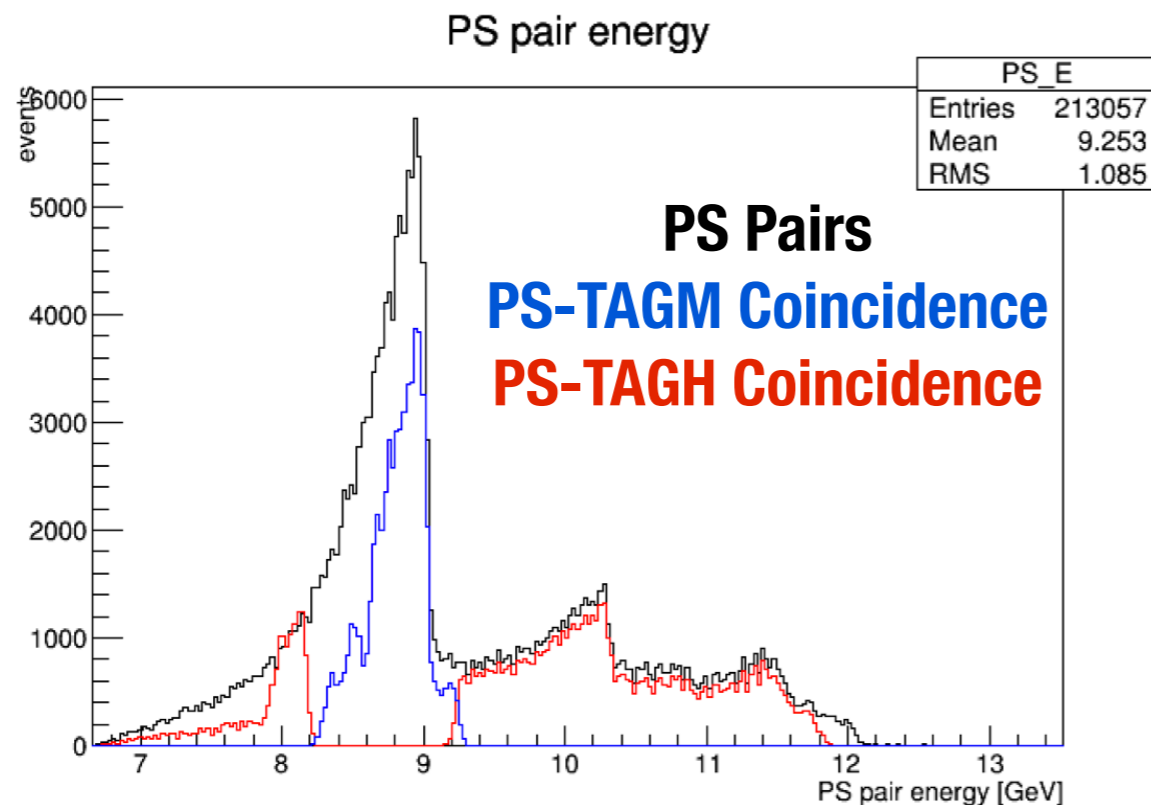
$P_\Sigma = 0.4$

Runs 11429-11555

PS flux strategy

$$Flux(E_\gamma) = \frac{N_{PS}(E_\gamma)}{Acceptance_{PS}(E_\gamma) \cdot Prescale_{PS} \cdot Livetime_{PS}} \cdot \frac{1}{RL_{conv}}$$

- * **Goal:** table in CCDB for each run containing tagged flux in bins of E_γ for normalization in user analyses
- * For asymmetries, relative flux is all that matters so RL and prescale cancel
- * PS skims (from calibration train) provide a quick analysis of the full PS triggered data to determine the PS yields independent of the full production launch



Acceptance from TAC run: Sasha and Hovannes

