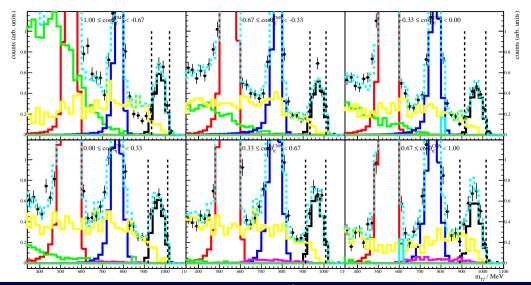
Event selection

2013 hydrogen beam time

- ► charge cut (3 PED)
- ▶ time cuts (prompt peak and bkg substraction)
- ► $E_{\gamma} > 1400 \text{ MeV}$
- ightharpoonup $E_{\gamma}^{\mathrm{calc}} > 1447 \; \mathrm{MeV}$
- ► coplanarity
- ▶ polar angle
- ightharpoonup missing mass
- ▶ invariant mass

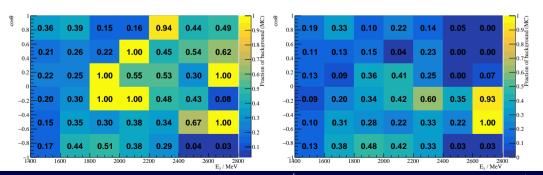
Event selection



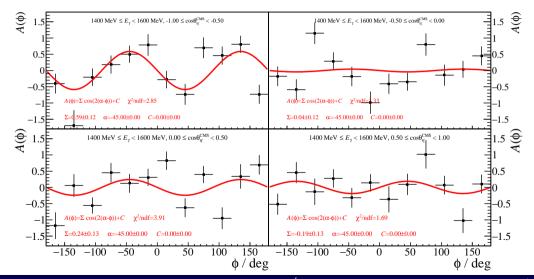
Event selection

Additional cuts to (try to) reduce bkg:

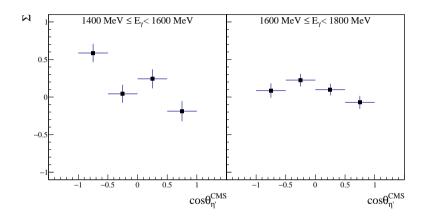
- ▶ p in CB for $E_{\gamma} < 1500$ MeV
- ▶ $E_{\gamma_i} < 1500 \text{ MeV}$
- ightharpoonup ClusterPEDCount $(\gamma_i) = 1$
- ▶ Clustersize(p) < 6
- ▶ Clustersize (γ_i) in FW



Asymmetry $A(\phi) = \frac{N^{\perp} - N^{\parallel}}{p_{\gamma}^{\parallel} N^{\perp} + p_{\gamma}^{\perp} N^{\parallel}} = \sum \cos \left(2\left(\alpha^{\parallel} - \phi\right)\right)$



Beam asymmetry Σ



to do : determine and substract $\Sigma_{2\pi^0/\pi^0\eta}$ (?), fit with BAYES