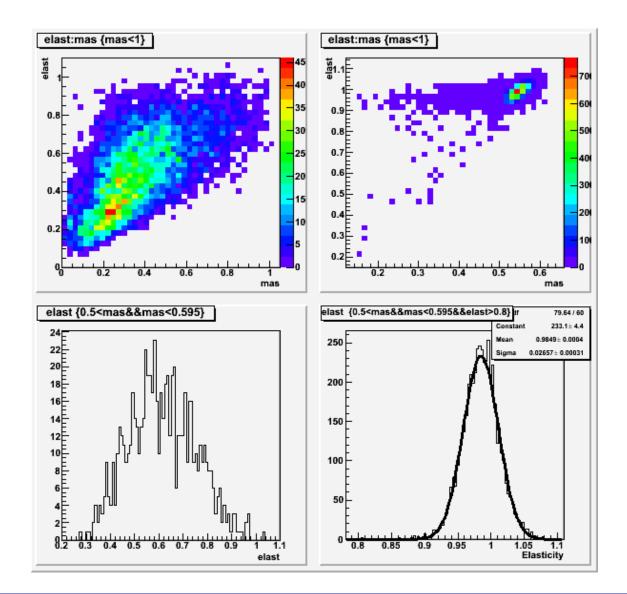
Status of η Rare Decay Background Simulation

Physics meeting, 23 April 2012 A.Somov, JLab

Study hadronic background using official FCAL reconstruction

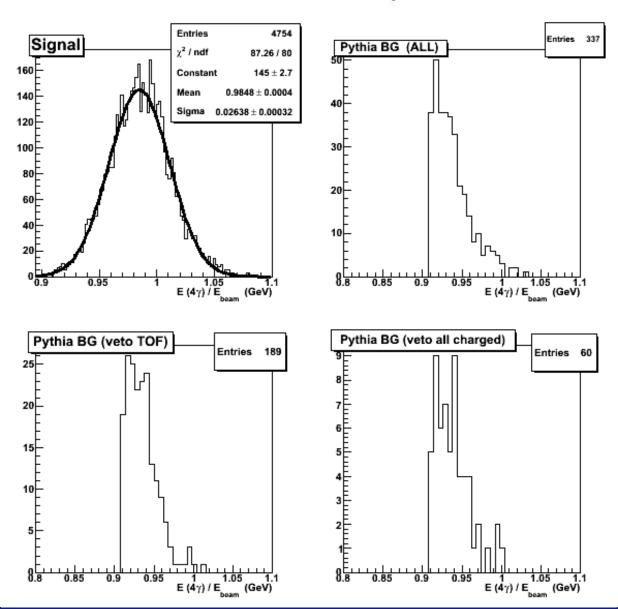
Elasticity

Pythia BG



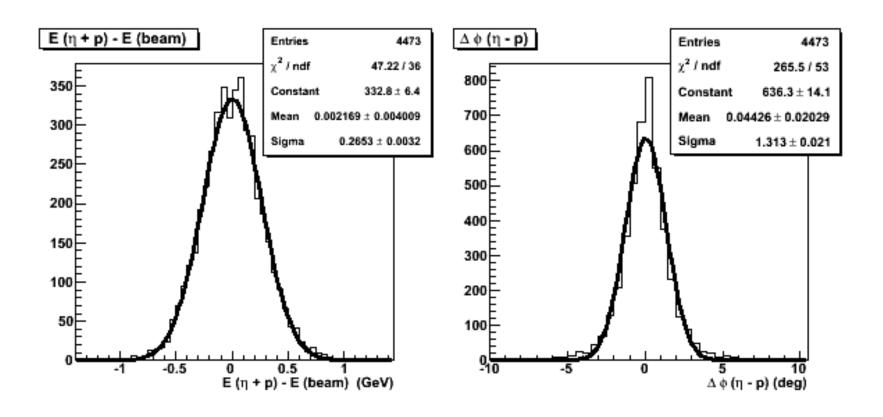
Signal

Elasticity



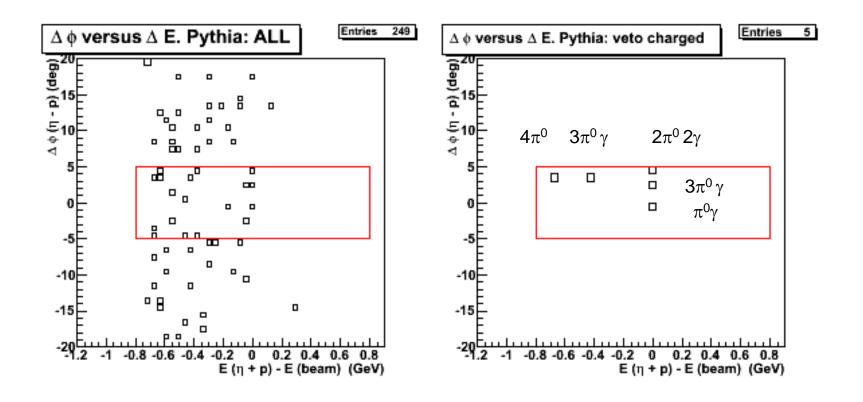
No reconstruction of recoil proton

Signal: energy and azimuthal angle



 $\Delta \varphi$ of reconstructed recoil proton ~ 1 deg (see Simon's talk)

Full event reconstruction



Cluster overlapping: FCAL/algorithm is not able to resolve them

Expect to reduce background in PWO calorimeter