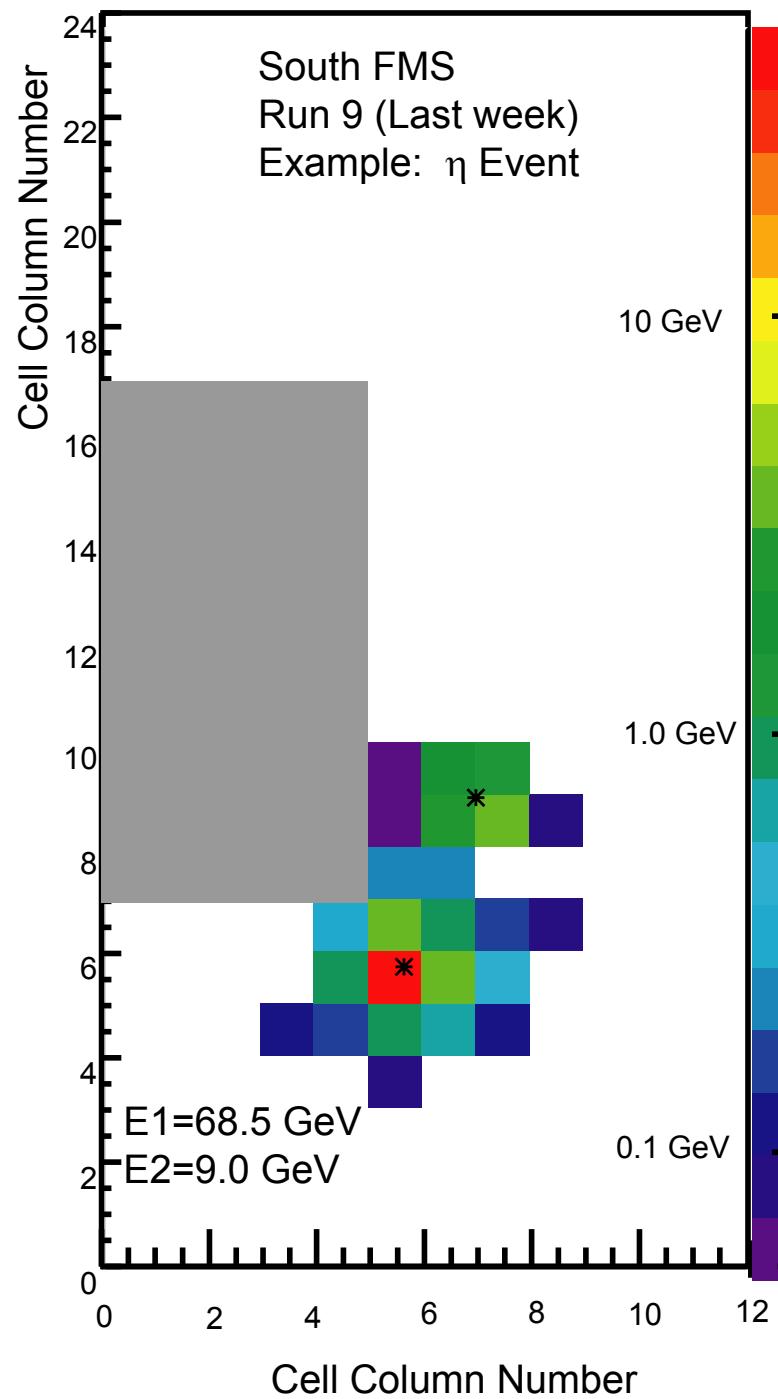
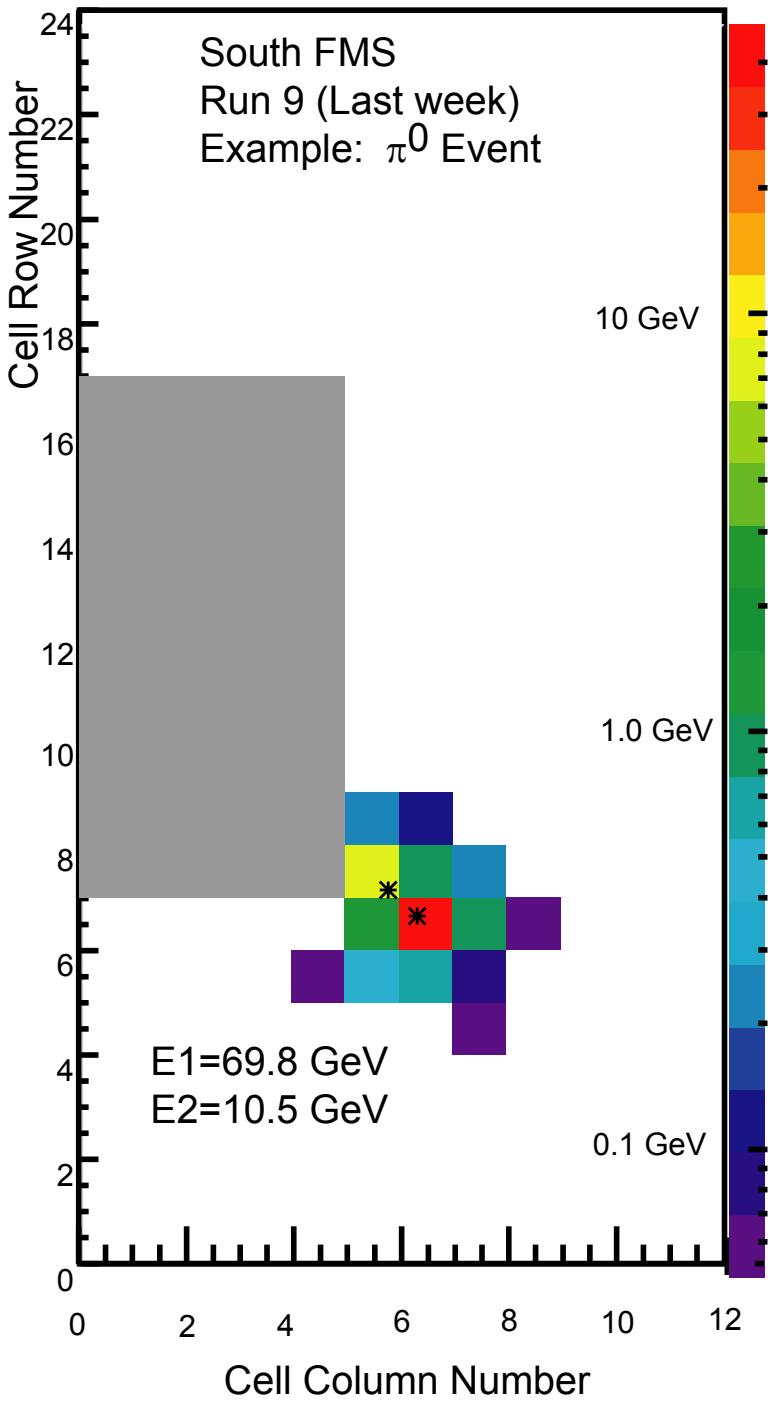
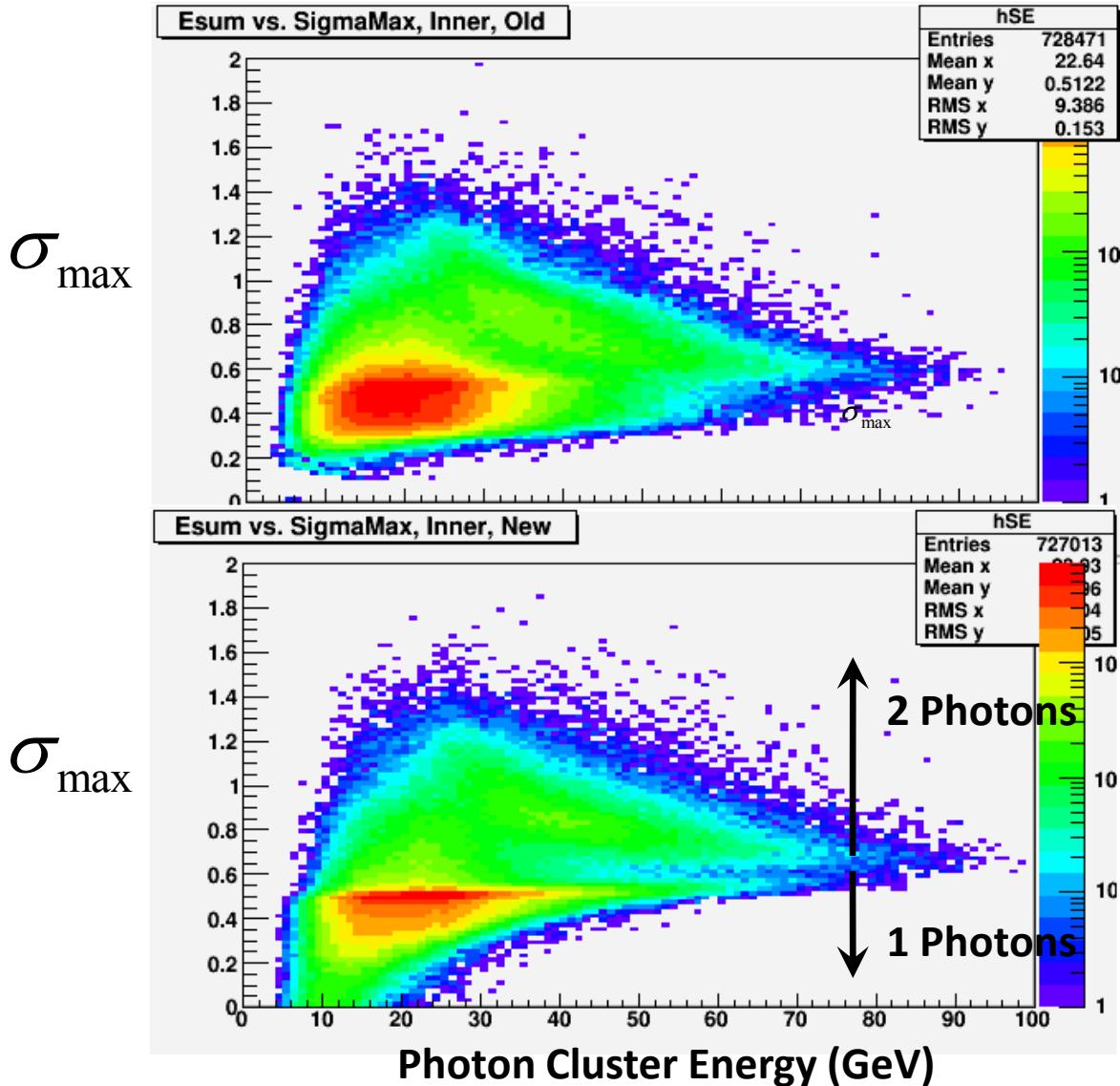


Two Photon Mass Distributions
FMS Small Cells
Data From Last Week of Run 9 (Preliminary Calibration)



Separation of single photon cluster
from two photon cluster based
upon distribution of shower
energy along a preferred axis.

$$\sigma_{\max} \equiv \text{Max Eigenvalue of} \begin{bmatrix} \Delta\sigma_x^2 & \Delta\sigma_x\Delta\sigma_y \\ \Delta\sigma_y\Delta\sigma_x & \Delta\sigma_y^2 \end{bmatrix}$$



Old algorithm with
Energy weighted moments

Improved algorithm with
log energy weighted moments.

Provides clearer separation
Between π^0 and single photon.
Clusters up to ~ 80 GeV.