





Gamma-ray Large Area Space Telescope



GLAST Large Area Telescope:

PSF with Low-Energy Tagged photons

Luca Latronico INFN - Pisa

luca.latronico@pi.infn.it

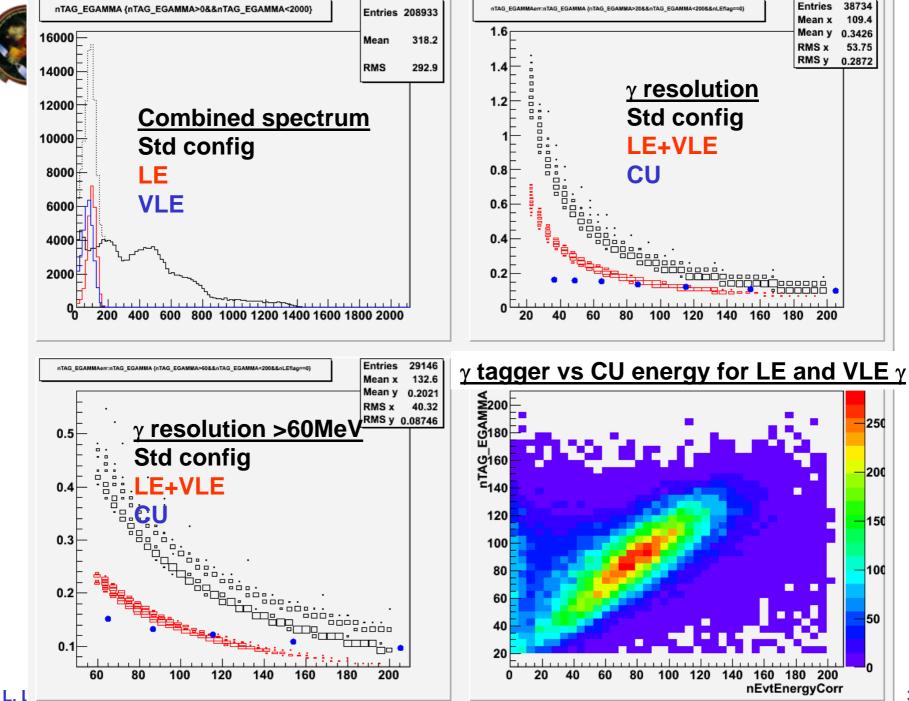


Analysis

- □ Analyzed runs at LE (500MeV, 480A) and VLE (500MeV, 525A)
 - Only analyzed data at 0° through twr3
 - LE: 1650-1652-1653-1654 VLE: 1692-1693-1694
 - Reanalyzed calibration runs
 - LE: 1645 VLE: 1690
 - Found that MS is higher than MS with same energy beam and std configuration, but could not understand why
 - maybe some different beam parameter
 - Stayed on the safe side and used higher MS

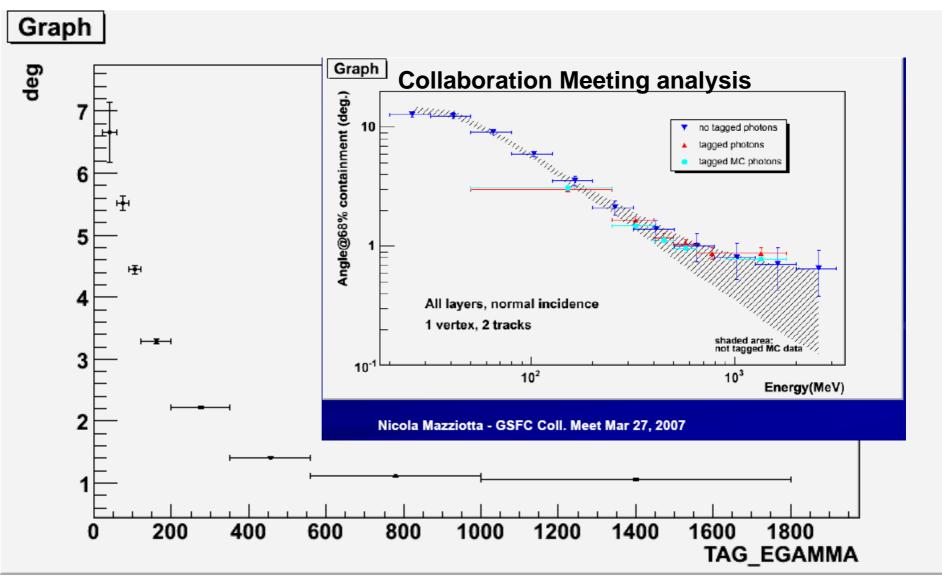
Cuts

- good tagger reconstruction
 - TAG_EGAMMA >0 && TAG_THETA_IN>-100
- something in CU and reasonable CU recon
 - CalEnergyCorr>20 && CTBCORE >0.1
- PSF for
 - Vts topology evts
 - TkrNumTracks==2 && (nVtxStatus==162 || nVtxStatus==34)
 - Single track events
 - TkrNumTracks==1





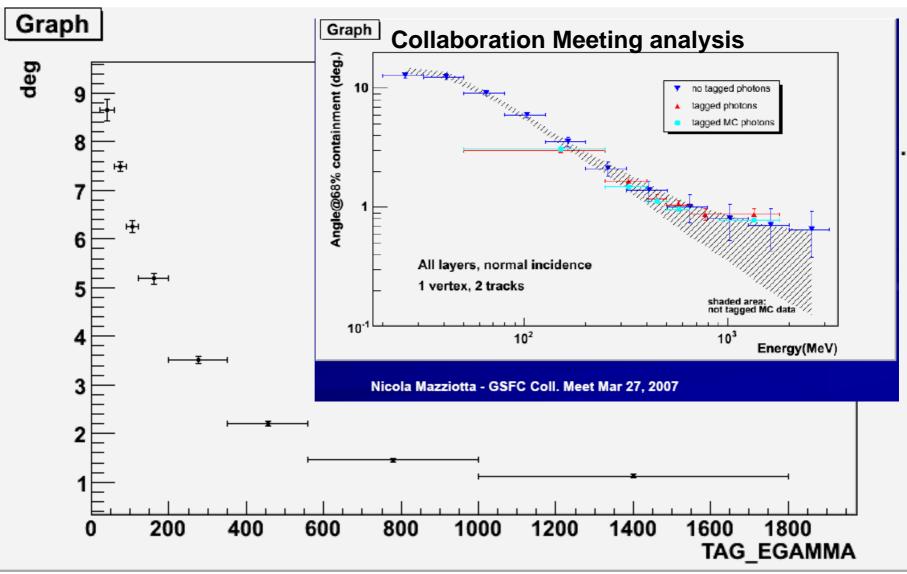
68% containment angle for for Vertex events



L. Latronico



68% containment angle for Single Track events



CU Beam Test Report – C&A VRVS 4/6/2007



Conclusions

- □ Work in progress
- □ Correct tagged gamma error computed
 - Will feed it into BTRelease
- Reasonable statistics found
- □ Energy bin <200 MeV now can be explored
 - Both for PSF (compare with big red cross in collaboration meeting analysis)
 - Potentially for energy reconstruction studies too
 - Tagger resolution explodes at very low energy by construction
- □ Containment angle seems smaller than full brem
 - PSF results are preliminary and need cross-check