

GLAST

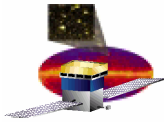
**Gamma-ray Large
Area Space
Telescope**



Status report on the GLAST- PS experiment

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on behalf of the beam test team



Summary of past week (1)

Mostly smooth operation over the past week, with 4 spills per cycle.
2-hour long, accidental power outage on Sunday
8-hour long interruption for intervention on a magnet on Monday

Protons

10 GeV

30°: ~5M events (MMS in front of CU)

90°: 2 positions 3M+1M evts

0°: 200 k evts

verification of gains: 4 range readout, non-zero suppress
+muon-gains

6 GeV

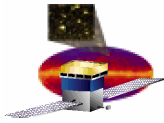
30°: ~4 M evts (MMS in front of CU)

90°: ~ 1 M evts

Tagged gammas in tower 3

1-1.5-2.5 GeV electrons: 0°,10°,20°, 30° (~100 k each h)

0.5 GeV with new setting (100 MeV gamma-rays)



Summary of past week (2)

Full bremsstrahlung

1M evts at 0° in tower 3

1M evts at -215° (albedo from back)

Electrons

5 GeV systematic scan in positions and angles (0°,10°,20°,30°,45°,60°)

Positron + electrons at 1 GeV annihilator: 2.6 mm of plexiglas.

900 k evts for both. e⁺: 2500 evts e⁻: 1300 evts without ACD signal.

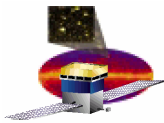
analysis+simulations under way

Special configurations FHE at different thresholds (0.5-2 GeV) 5 GeV e⁻

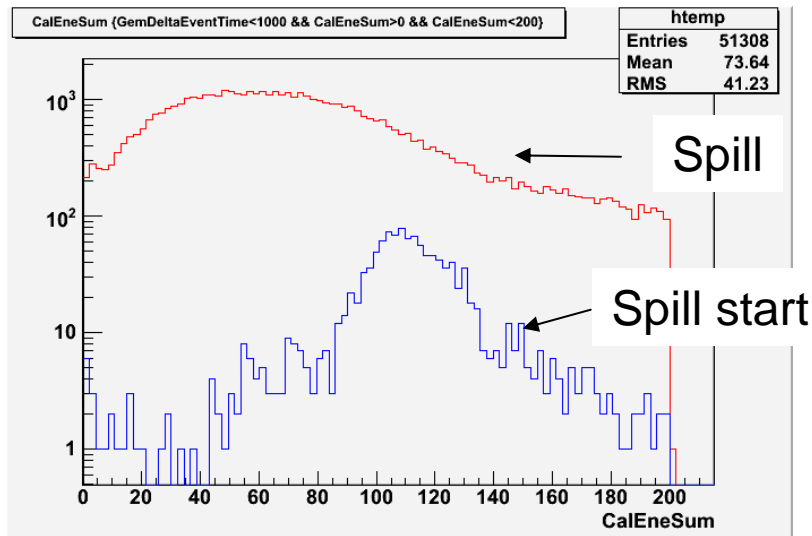
To be done “random trigger” (measurement of pile-up contribution)

for 2.5 GeV full bremsstrahlung

complete 0.5 GeV tagging mode, lower energy (50 MeV)



Drift in Cal Energy due to high rate



**Protons 10 GeV at 30°
Run 1370**

Different conditions in deposited energies, rate, configurations have been explored. Actively looked at by Sasha, Berrie, Philippe...

