T-1044
sPHENIX Calorimeter

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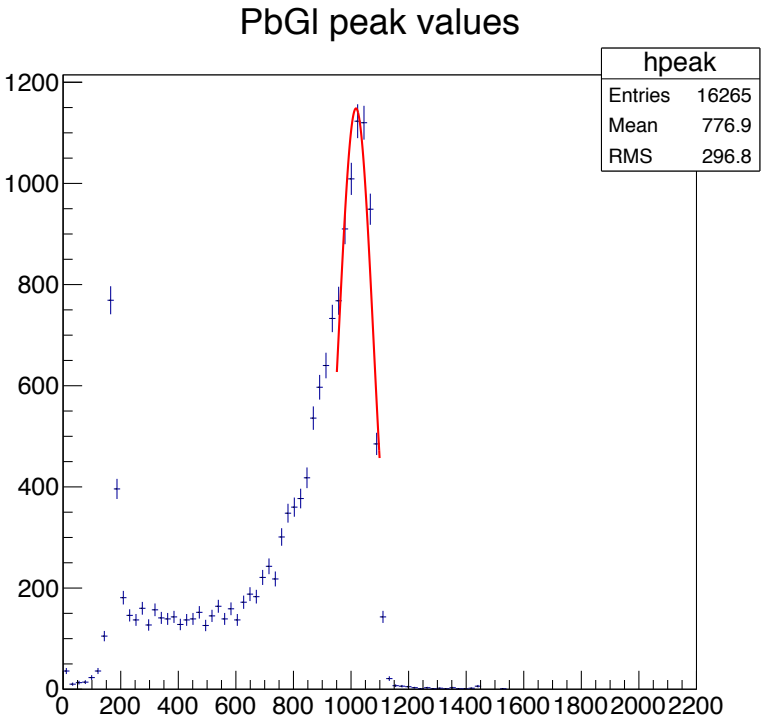
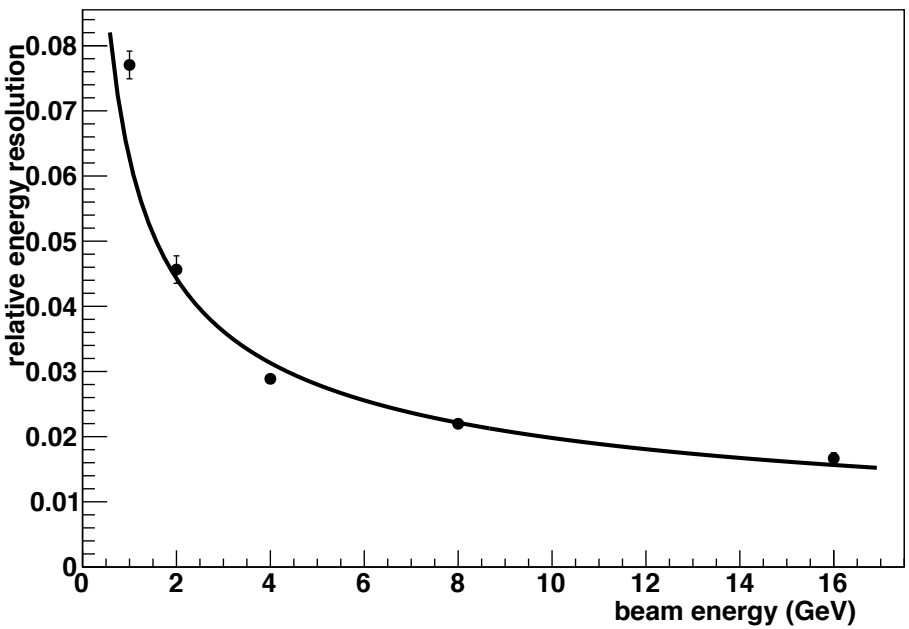
First week working with beam

- Ran 1, 2, 4, 8, 16 GeV and 120 GeV p
- Studied beam with Cerenkov counter
- Instrumented PbGl (scope and DAQ) to study beam
- Used 5mm x 5mm hodoscope for triggering
- Measured light output of EMCAL with calibrated PMT

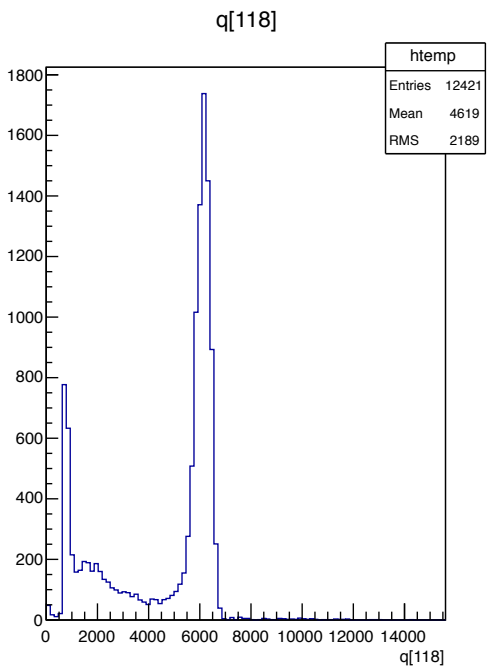
PbGl

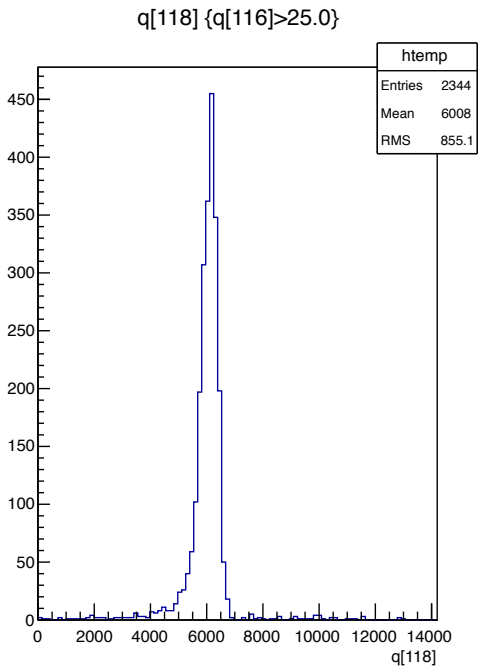

PbGl peak values
hpeak
Entries 16265
Mean 776.9
RMS 296.8
0
200
400
600
800
1000
1200
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200


relative energy resolution
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0 2 4 6 8 10 12 14 16
beam energy (GeV)

6.2%/√E

Cerenkov counter

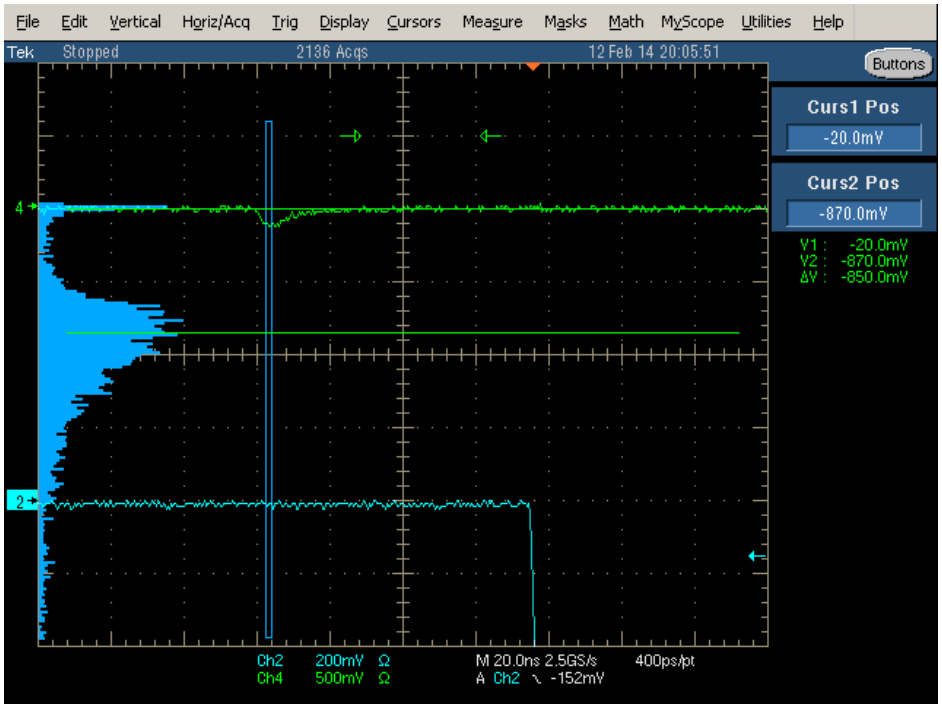




All triggers

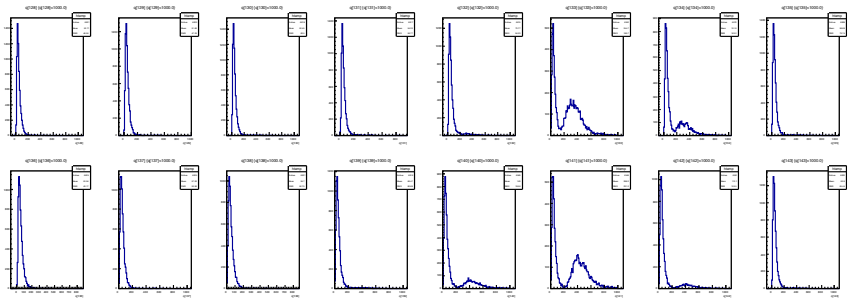
Outer Cerenkov

EMCAL light output



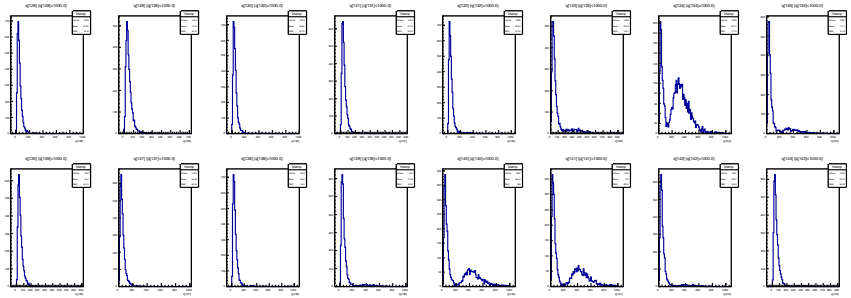
Corresponds to 3700 pe/GeV
on PMT directly coupled

Hodoscope

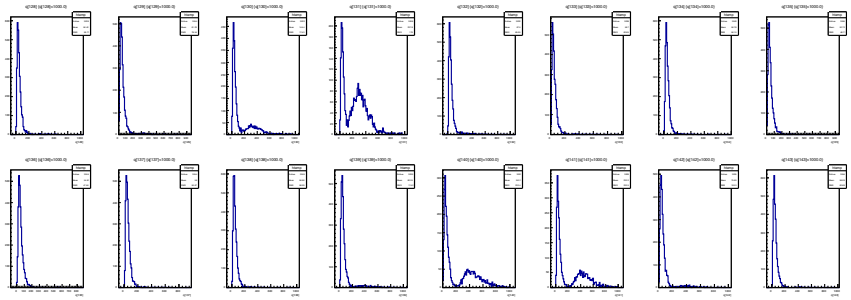


5mm vertical fingers

5 mm horizontal fingers



120 GeV p



Overall status and plans

- Changed gains of all our preamps (now that we have good gain point!)
- Started taking data systematically with angle and energy scans