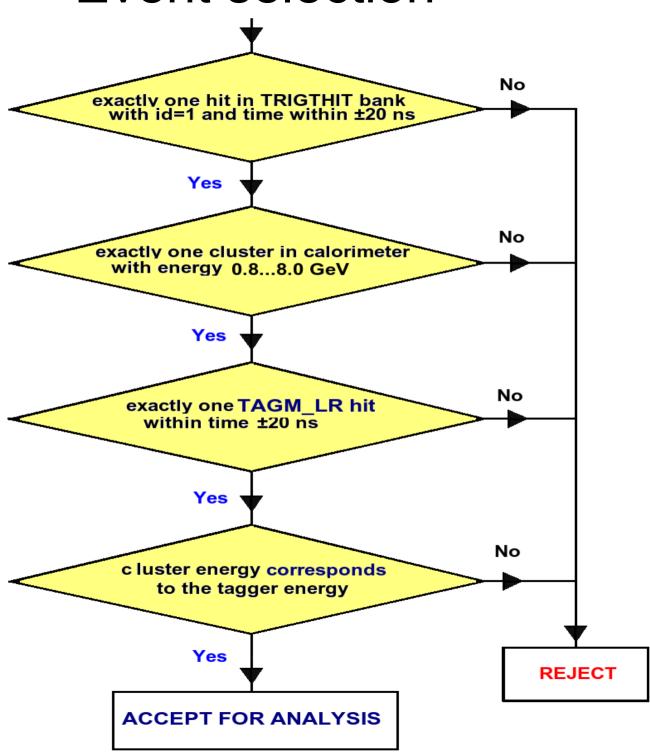
Trigger efficiency (HyCal signal)

- The main trigger for physics event record was "HyCal Totalsum".
- If we have hit in TAGGER and corresponding cluster in HYCAL, trigger efficiency defines probability to have HyCal Totalsum trigger.
 - For estimation of HyCal trigger efficiency, we used 2nd Snake Scan data.

Event selection



HyCal matrix (central part). Red arrows – "direction" of beam, yellow pointed boxes – no signal or low statistic.

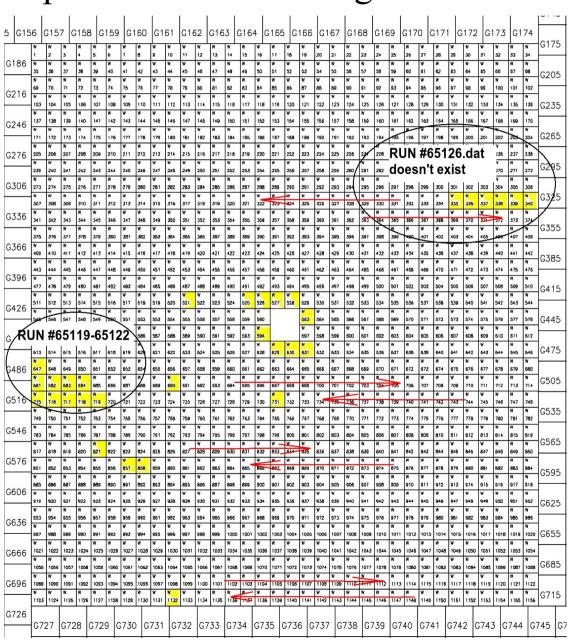


Table with problem channels

Problem channels

Central id number	Description of problem
1571	reduced efficiency ~ 99.4%
1637	reduced efficiency ~70%
1690	Dead dynode

Channels with "shifted gains".

1521, 1525, 1527, 1528, 1563, 1594, 1629, 1630, 1631, 1731, 1821, 1857, 1858, 2132

Channels with low statistics

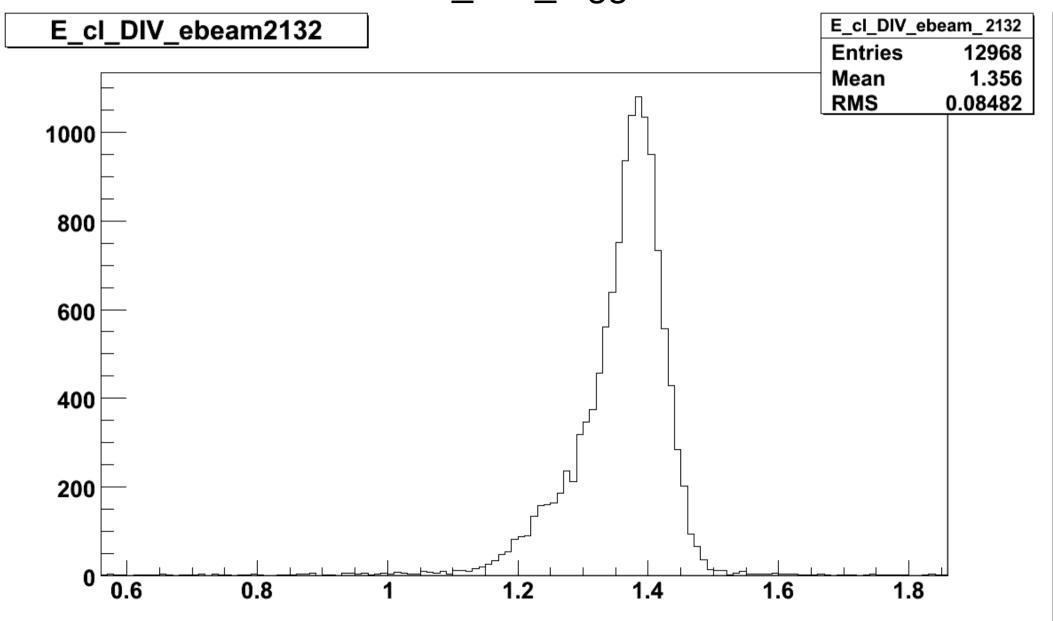
1526, 1630 (channels near central hole)

1335-1340 (should be in file primex2 065126.dat which missed)

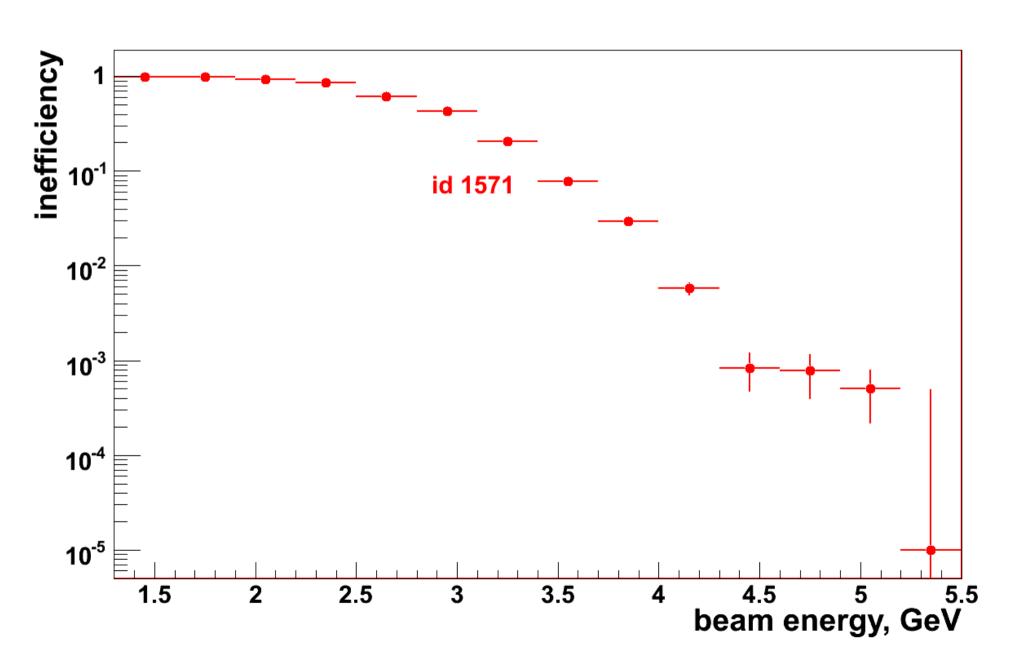
1647, 1681-1684, 1715-1719 (should be in files in runs #65119-65122 which are mostly junk)

Example of channel with "shifted gain". Channel #2132, gain factor ~1.36.

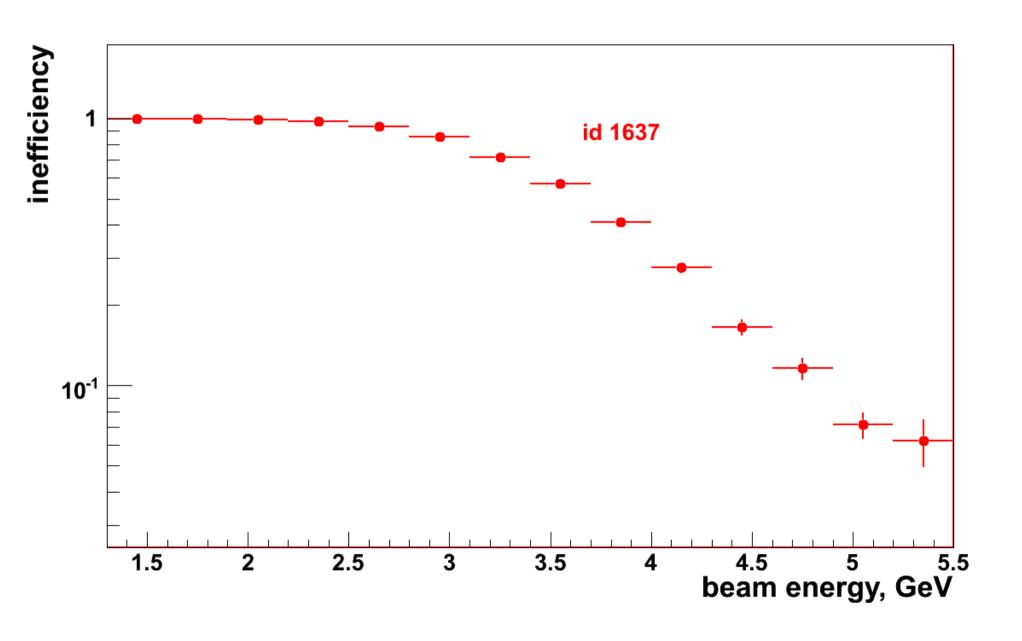
E_cl/E_tagger



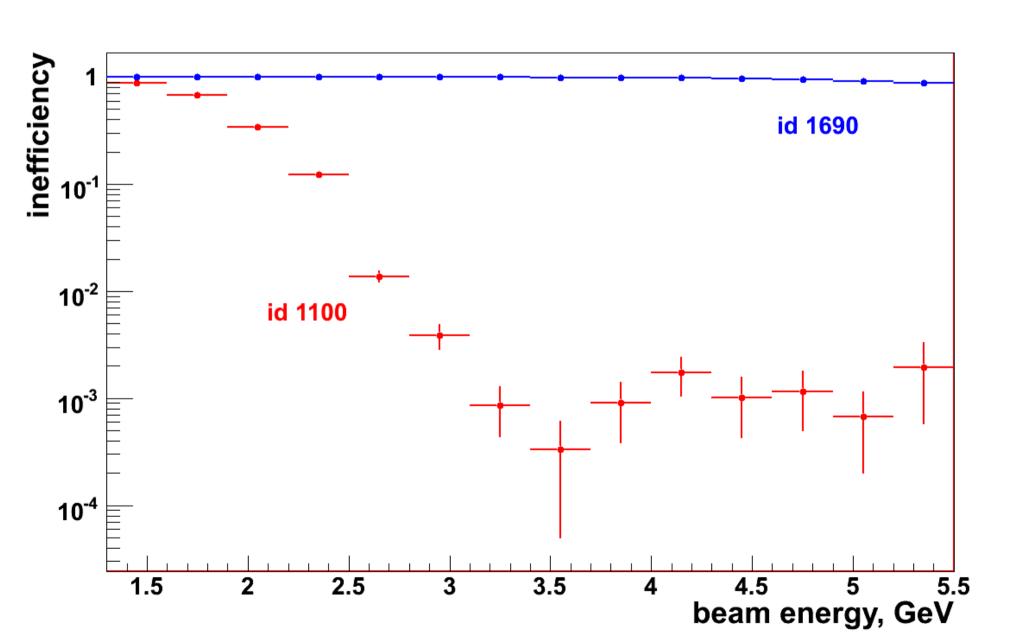
Inefficiency of HyCal trigger as a function of energy for **problem** channel #1571



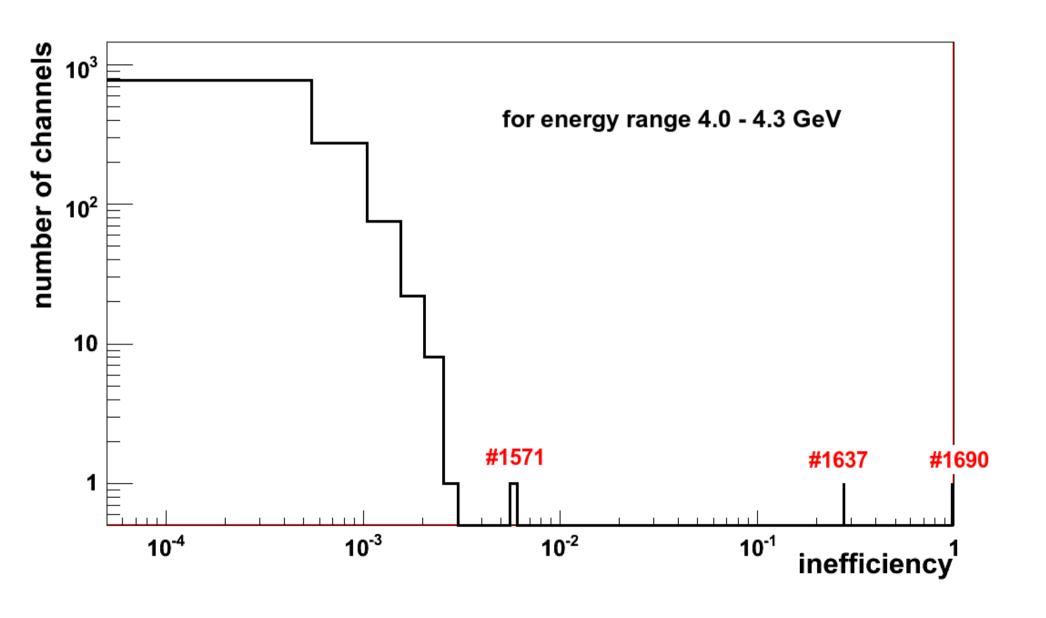
Inefficiency of HyCal trigger as a function of energy for **problem** channel #1637



Inefficiency of HyCal trigger as a function of energy for **problem** channel #1690 in compare with **good** channel #1100



Number of channels versus inefficiency for energy range 4.0-4.3 GeV



Timing, tid#1-19, time(TAGM_LR)-time(TRIGTHIT) channel #1001

