



SciBooNE (E954) status

<http://www-sciboone.fnal.gov/>

Hide TANAKA

(Columbia University)

Jun. 25, 2007 @AEM

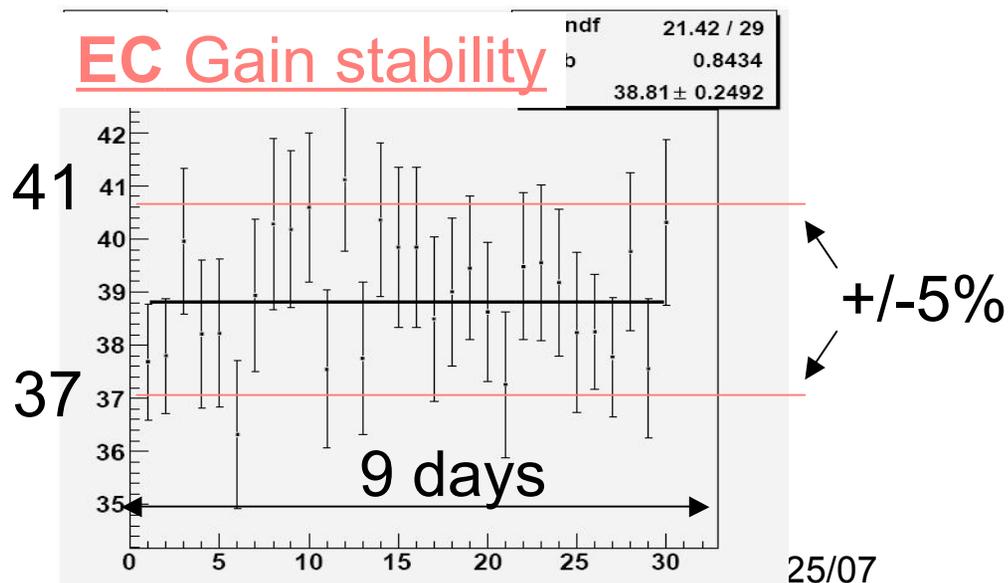
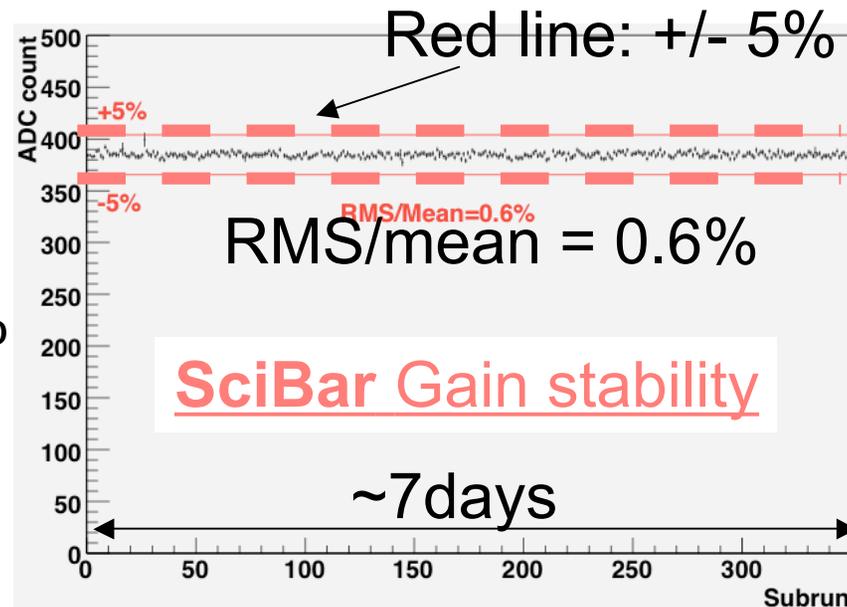
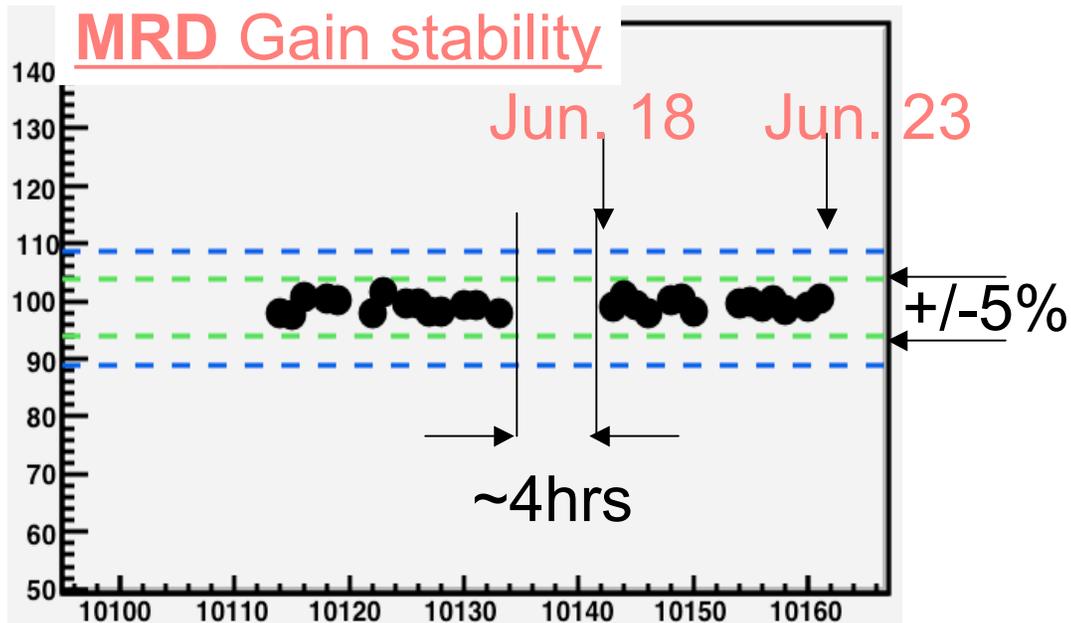
Week summary Jun. 18 - Jun. 25

- Transition to normal shift (joint shift with MB)
 - Shift procedure established
 - Already started monitoring by shifters.
- Uptime: 97%
 - Run switching: 2~5 min/shift
 - SciBar HVAC restart (2hrs)
 - Check MRD channel (0.5hr)
 - Fine tuning of EC beam trigger timing (0.5hr)
- Total live time: ~165hr
 - ~6.6E18 POT (assuming ~4E16 p/hr)

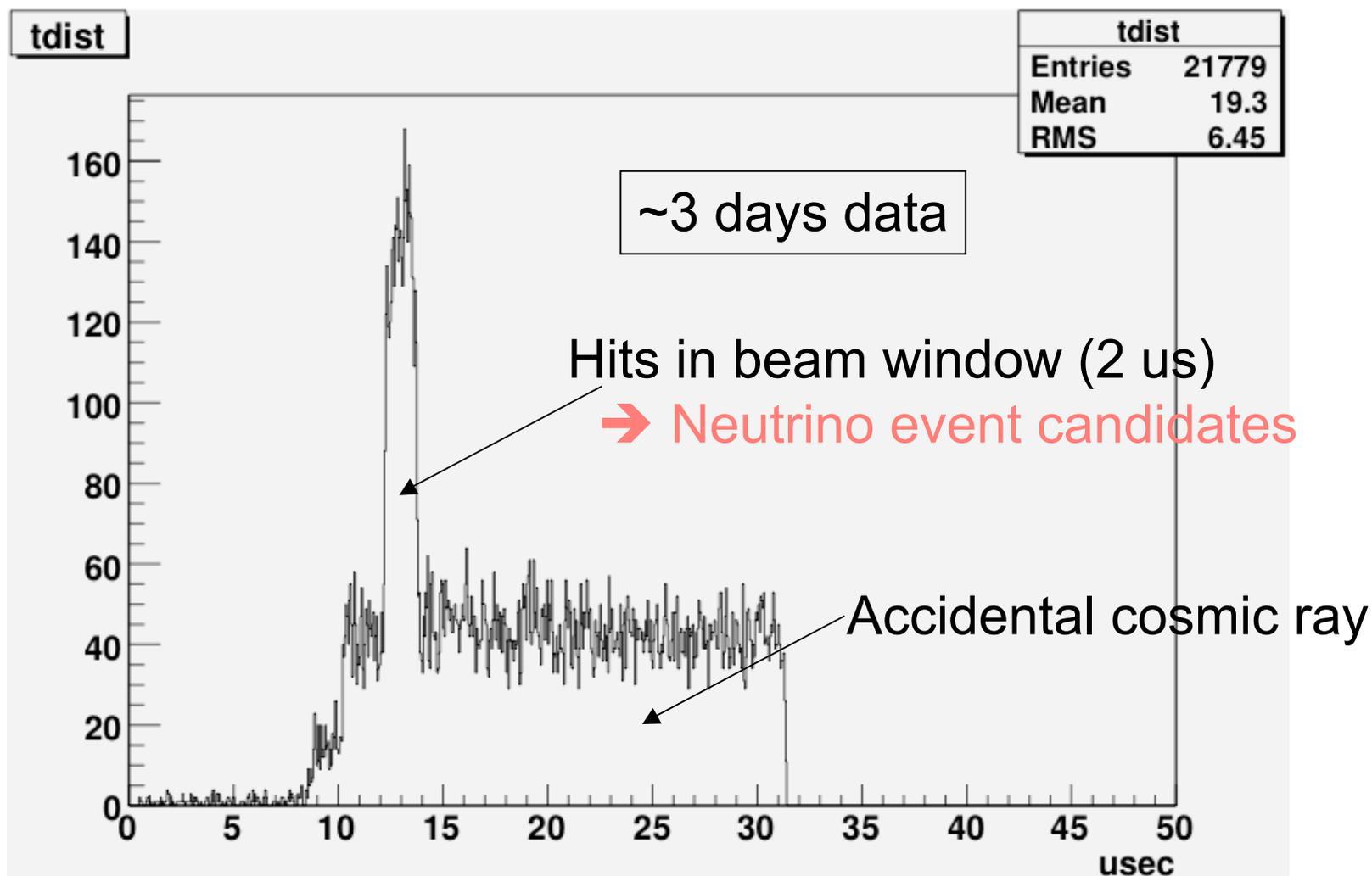
Detector stability

- SciBar
 - PMT gains are stable within +/- 1%
 - Pedestals are stable within 3 ADC counts
(cf. ~100 count/MIP)
- EC
 - PMT pedestal stable within +/- 0.6%
 - gain are stable within: ~1.2%
- MRD
 - Pedestal/gain are stable within +/-5%

Detector stability



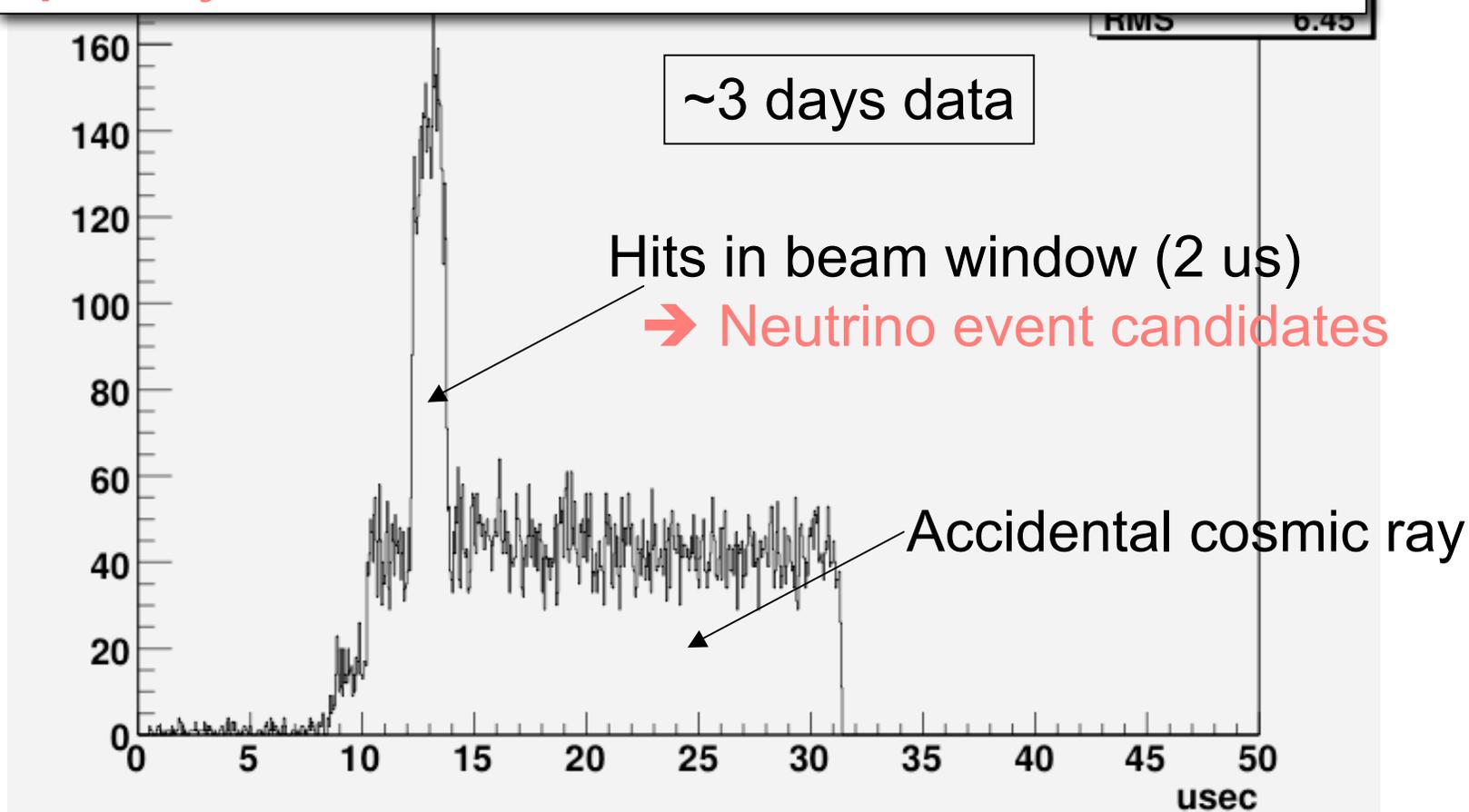
SciBar TDC hit distribution



Required 10 ADC hits (>2 p.e.) in 50ns window.

SciBar TDC hit distribution

SciBooNE has been collecting physics quality data for more than 1 week.



Required 10 ADC hits (>2 p.e.) in 50ns window.

SciBooNE switches
“commissioning mode”
to
physics data taking

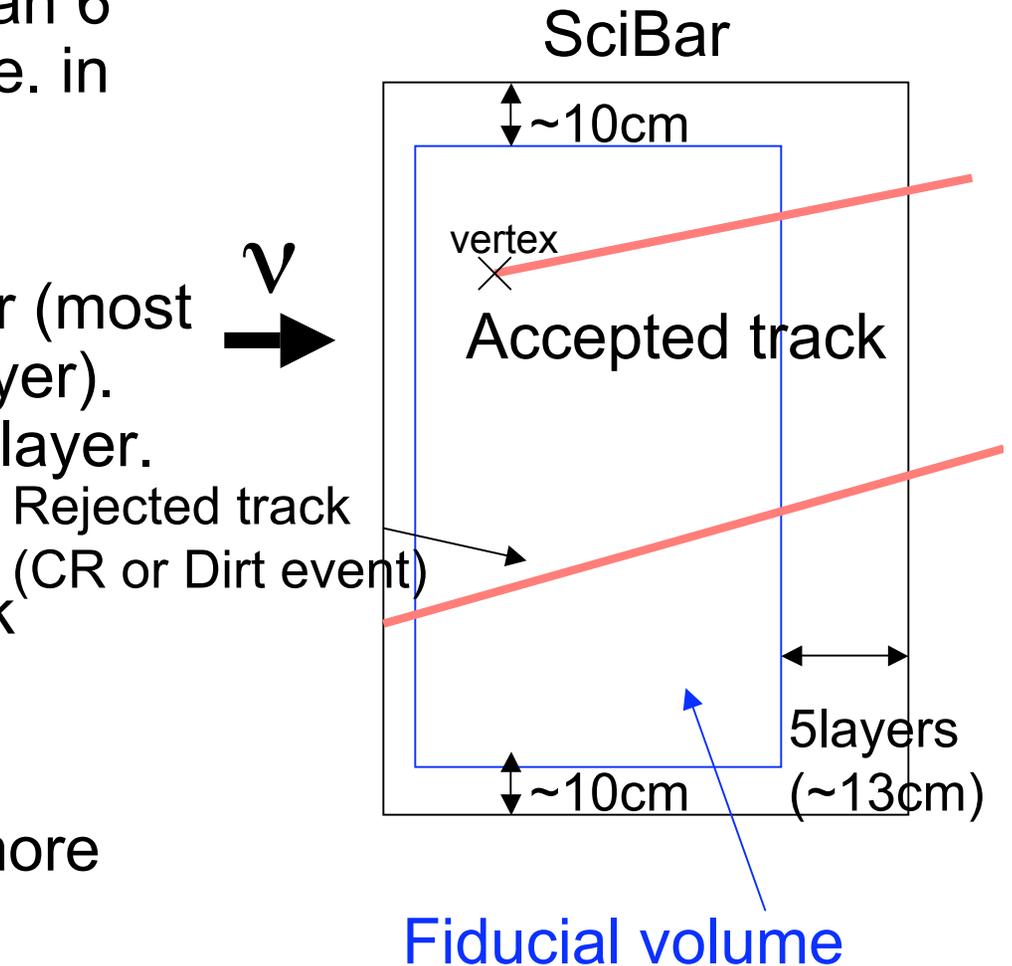
Summary

- SciBooNE detectors are working stably.
- Already started monitoring by regular shifter
 - Shift procedure established
- SciBooNE completed commission, and starts normal physics data taking.

Backups

Selection CC- ν -event candidate

1. Select event candidates in beam window (requires more than 6 contiguous hits with >2 p.e. in 2 μ s)
2. Require no hit on 1st layer (most downstream scintillator layer). And require >1 hit on last layer.
3. Downstream edge of track (vertex) in fiducial volume
4. Length of track must be more than 13cm (5 layers)



Fast results

