



SciBooNE (E954) status

Hide TANAKA
(Columbia University)

Dec. 3, 2007 @AEM

Week Summary Nov. 26 - Dec. 3

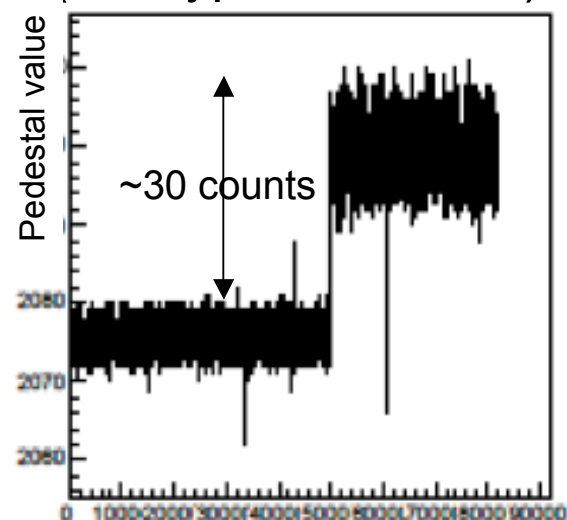
- Booster Neutrino Beam
 - Running well
 - Uptime fraction: 89%
 - Averaged proton/hr: 4E16
 - Averaged proton/pulse: 4E12

- SciBooNE detectors
 - SciBar PMT pedestal jumped
 - 14 times in last week
 - Power cycled → Back to nominal value.
(see next page for details)
 - Other detectors, EC/MRD, are stable
 - Detector uptime (period with beam): 84%
 - Power cycled SciBar (~1hr x 14 times)

SciBar PMT pedestal jump

- Pedestal level occasionally drifted in 6~10 PMTs (out of 224),
 - 14 times in last week
 - Power cycled → Back to nominal value.
 - Investigated cause(s) of the problem;
 - Turn off/on HVAC, dehumidifier, lighting etc.
 - Replace electronics.
 - The problem might be correlated with humidity.
 - Humidity in last week was very low.
 - Installed humidifiers.
- All PMTs are stable from last Friday to now
 - Humidifier works (and/or rain & snow in the weekend)

Pedestal value vs time
(in a typical channel)



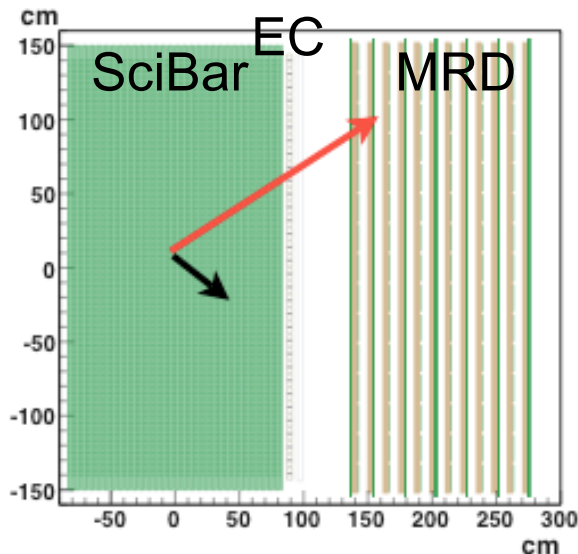
Run number
cf. ~100 counts for MIP

Data taking status

- Protons On Target (Nov. 25 - Dec. 1)
 - 5.9E18 POT delivered,
 - 4.9E18 POT for physics analysis.
- Total POT so far: 4.2E19
(Projected POT for ν -mode: 1E20)

POT normalized event rate

- Charged current event candidates in SciBar.
- Stable within stat. error.
- ➔ Stable operation of beam & detector.



Event rate per week

