SciBooNE (E954) status

Hide TANAKA

(Columbia University)

Nov. 26, 2007 @AEM

Week Summary Nov. 19 - Nov. 25

- Booster Neutrino Beam
  - Running well
    - Uptime fraction: 98%
    - Averaged proton/hr: 5E16
    - Averaged proton/pulse: 4E12

- SciBooNE detectors
  - Detectors are stable.
    - SciBar pedestal drift in 10/224 PMTs: fixed
  - Detector uptime (period with beam): 98%

    [Major down time]
    - Restart SciBar HV and electronics (2.5hr)

Data taking status

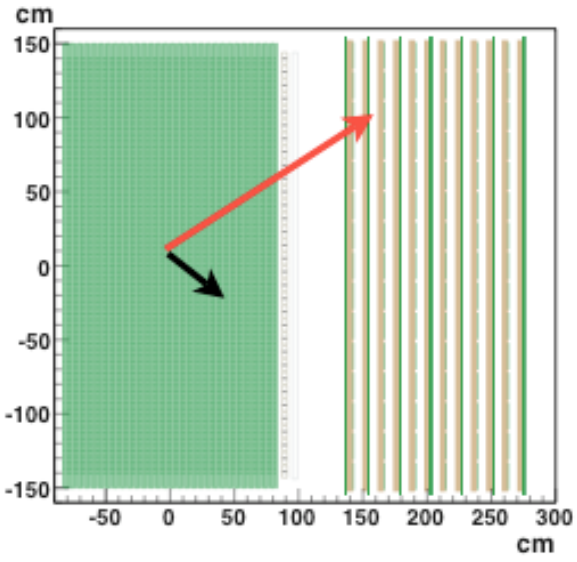
- Protons On Target (Nov. 17 - Nov. 24)
  - 7.5E18 POT delivered,
  - 7.4E18 POT for physics analysis.

- Total POT so far: 3.6E19
  (~36% of projected POT for ν-mode)

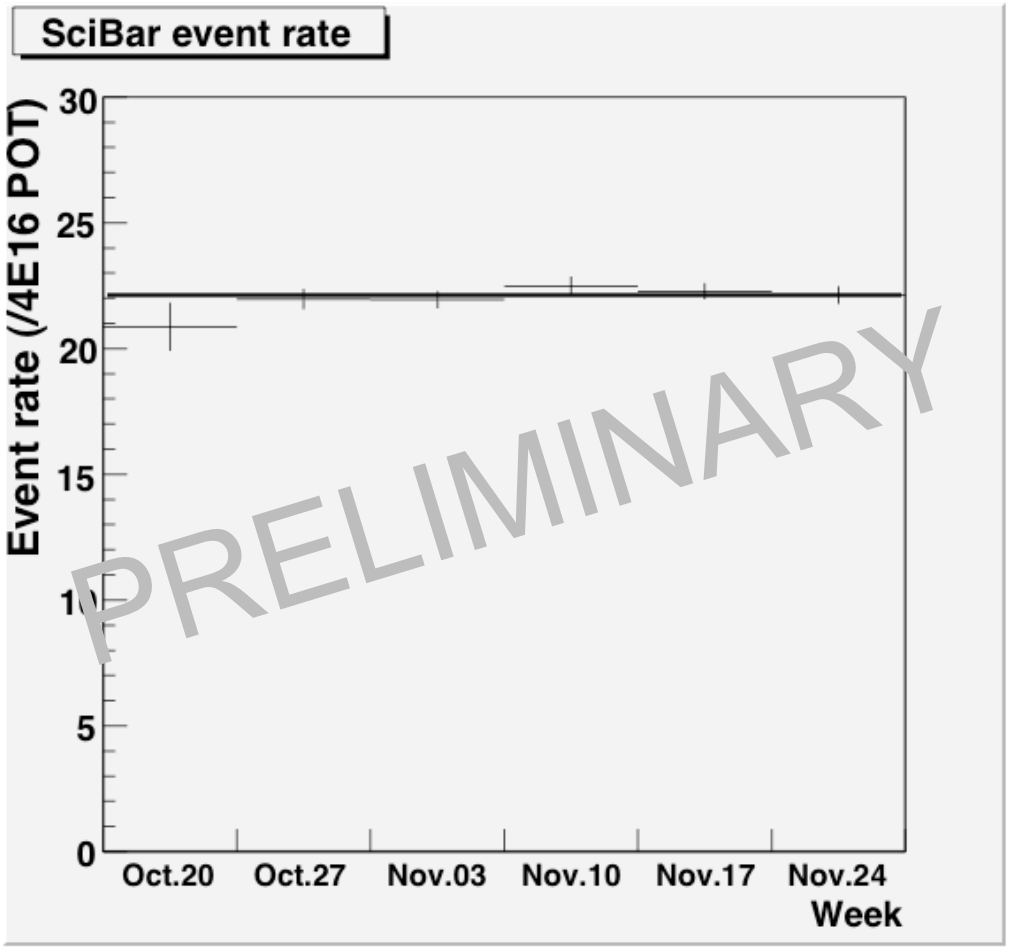
POT normalized event rate

- Charged current event candidates in SciBar.
- Stable within stat. error.

➔ Stable operation of beam & detector.

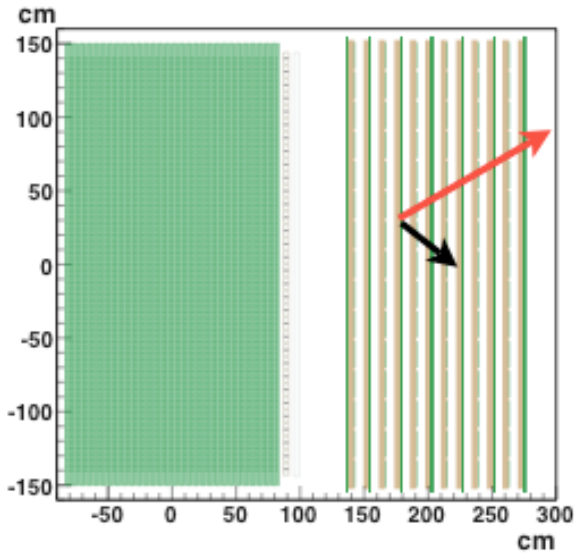


Event rate per week



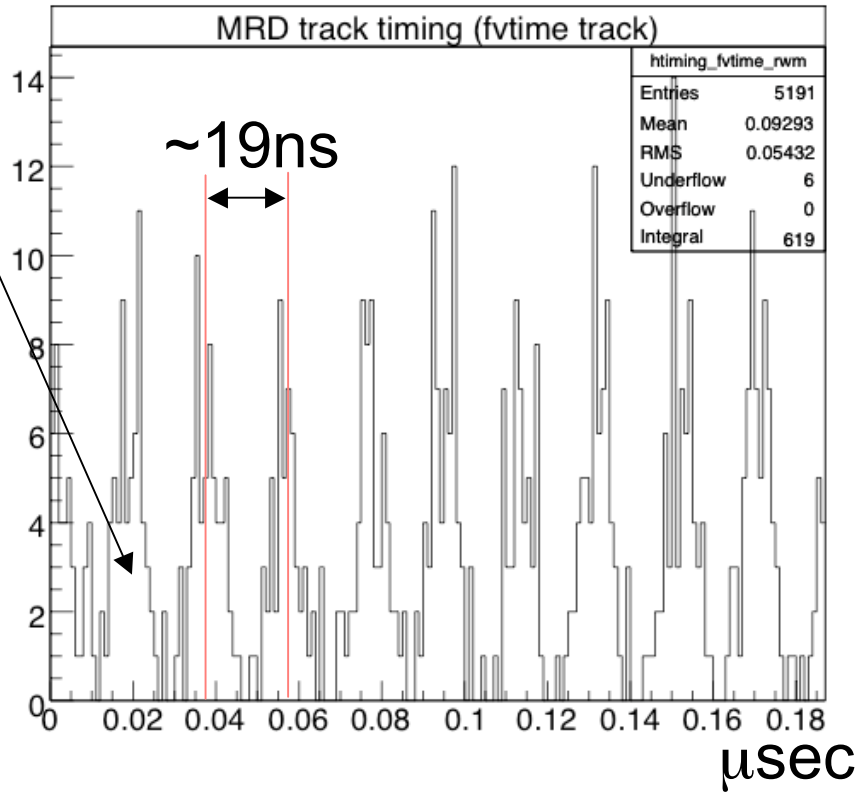
ν Event Timing w.r.t Beam

Charged current event candidates in MRD



Clear bunch structure

cf. - Bunches are 19 ns apart.
- 84 bunches in a spill (1.6us)



NOTE: Timing corrections (TOF, light propagation) are not applied yet.