



SciBooNE (E954) status

Hide TANAKA
(Columbia University)

Nov. 5, 2007 @AEM

Weeks Summary Oct. 28 - Nov. 4

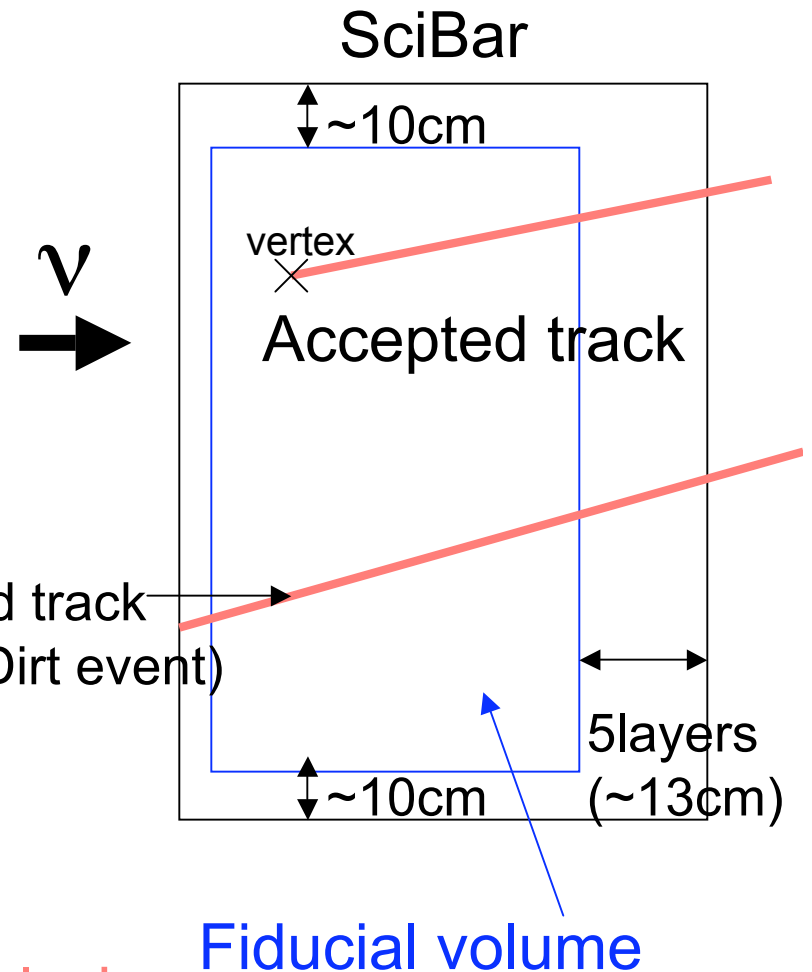
- **Booster Neutrino Beam (BNB)**
 - Dewater problem → back to normal
 - Occasionally trip of power supply → running ok.
 - Operating stably
- SciBooNE detectors
 - SciBar & EC are stable.
 - MRD HV problem (one card; 14 out of 362ch) → fixed.
 - HV fluctuate ~20V (operation voltage: ~1800V),
 - Affected period a few hours,
 - Effect being studied (expect to be small).
- Detector uptime (period with beam): 95%
 - Major down time: replace MRD HV card (0.5hr)

Data taking status

- Protons On Target (Oct. 28 - Nov. 3)
 - $7.5E18$ POT delivered,
 - $7.1E18$ POT for physics analysis.
 - $\sim 5.5E16$ p/hr! Thank AD!
- Total POT so far: $1.3E19$
($\sim 13\%$ of projected POT for ν -mode)

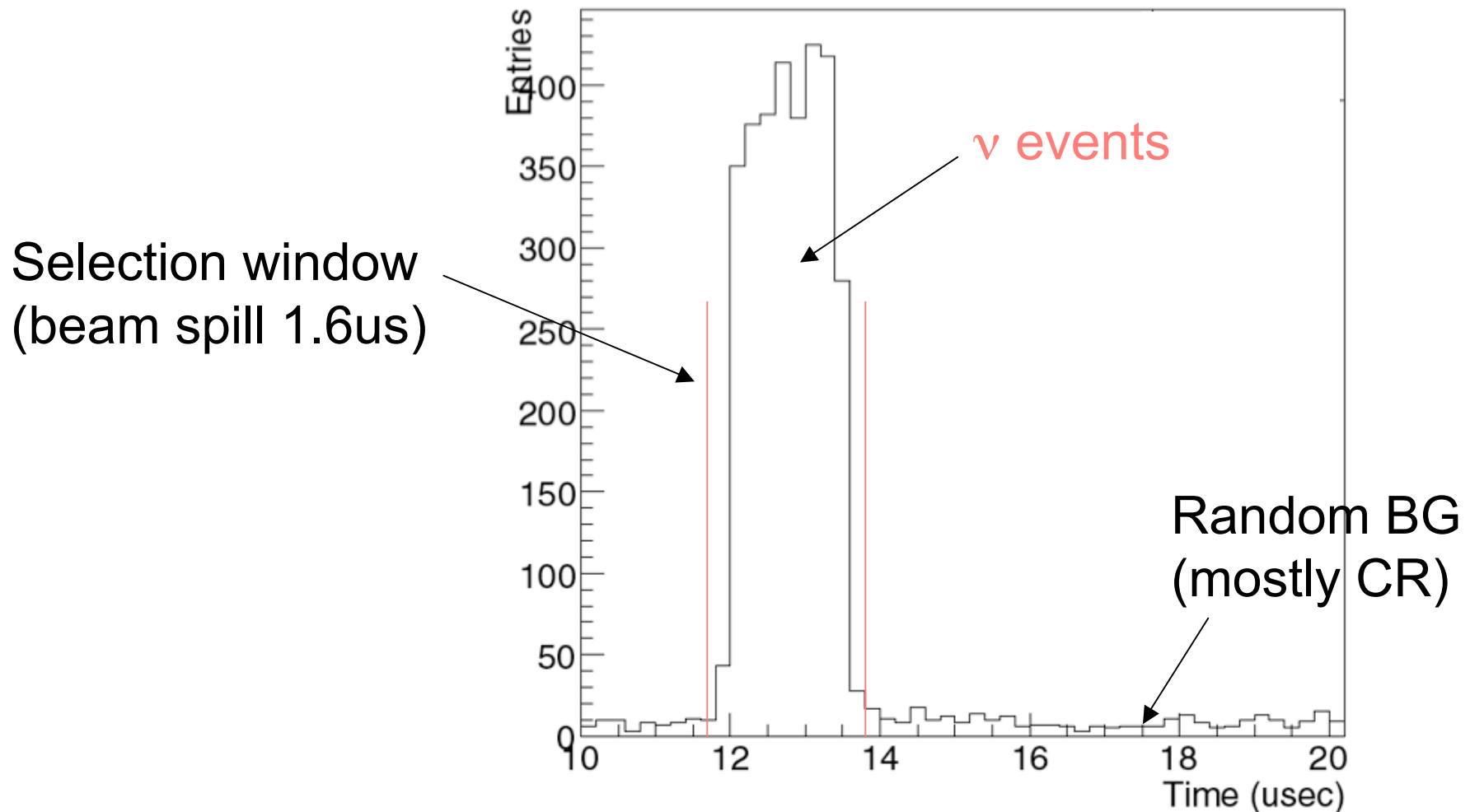
Selection CC- ν -event candidate

1. Select event candidates in beam window (requires more than 6 hits with >2 p.e. in 2 μ s)
2. Require no hit on 1st layer (most upstream scintillator layer) [to reject Dirt & CR]. And require >1 hit on last layer.
3. Upstream edge of track (vertex) in fiducial volume [to reject Dirt & CR events]
4. Length of track must be more than 13cm (>4 layers)



This criteria are not for physics analysis,
for detector/beam stability check.

SciBar TDC hit distribution



- **Clear ν events.**

BG in beam timing window: $\sim 2.4\%$