

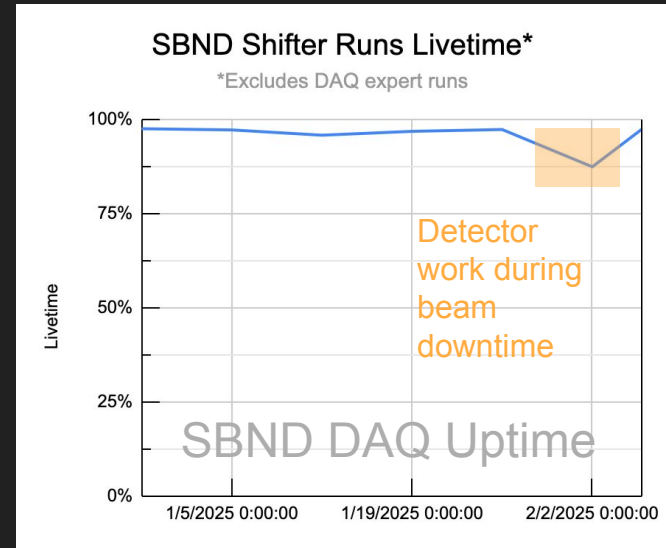
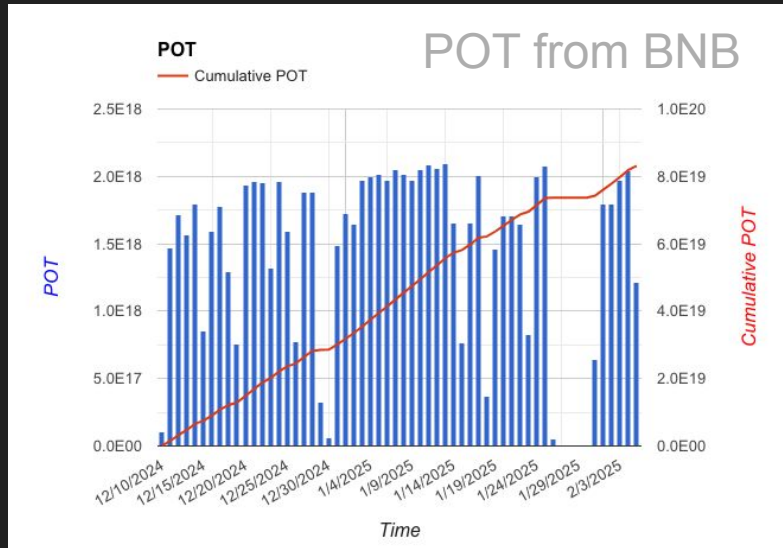
SBND PMG Report

February 6 2025

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and Monica Nunes

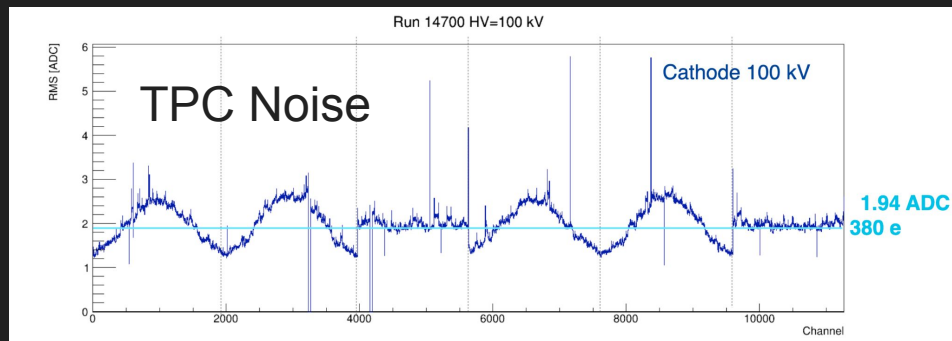
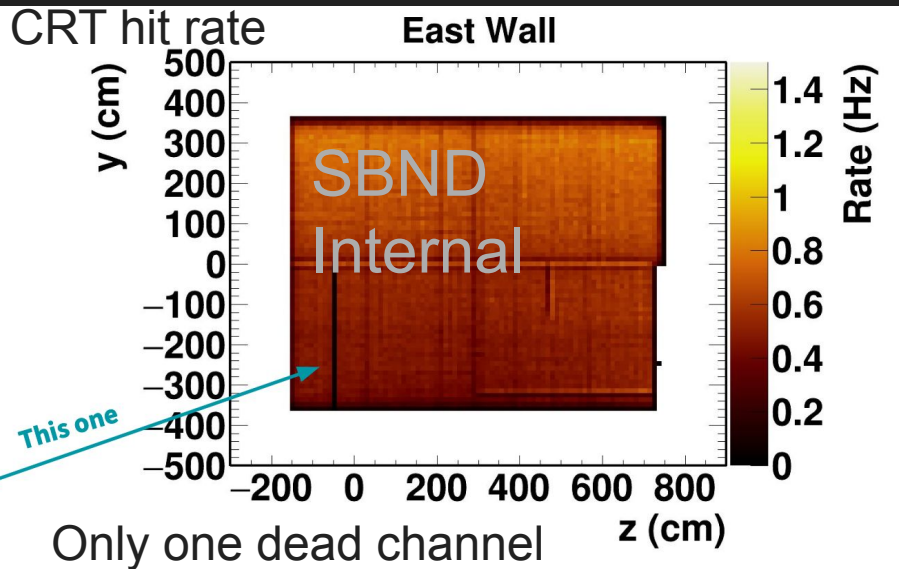
SBND is Collecting BNB Data

- We've received $\sim 8e19$ POT since the start of BNB running this year
- We've operated the SBND DAQ with a $\sim 97\%$ uptime during that period



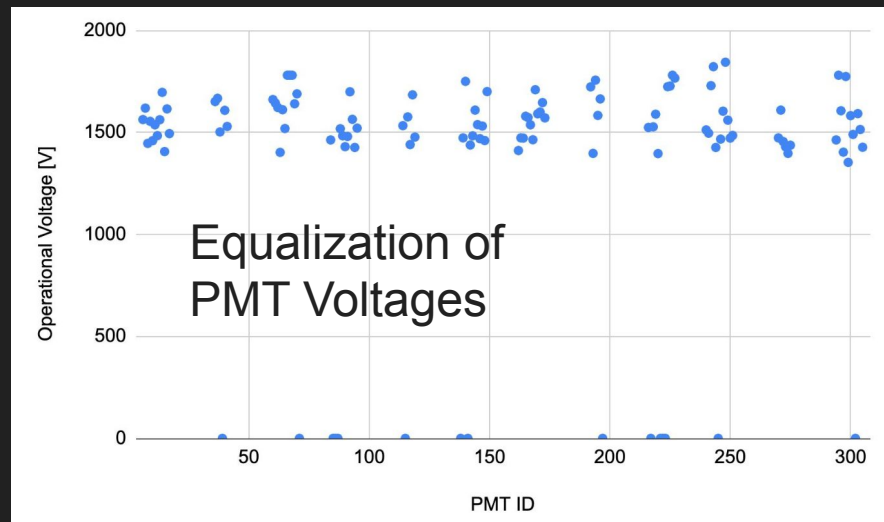
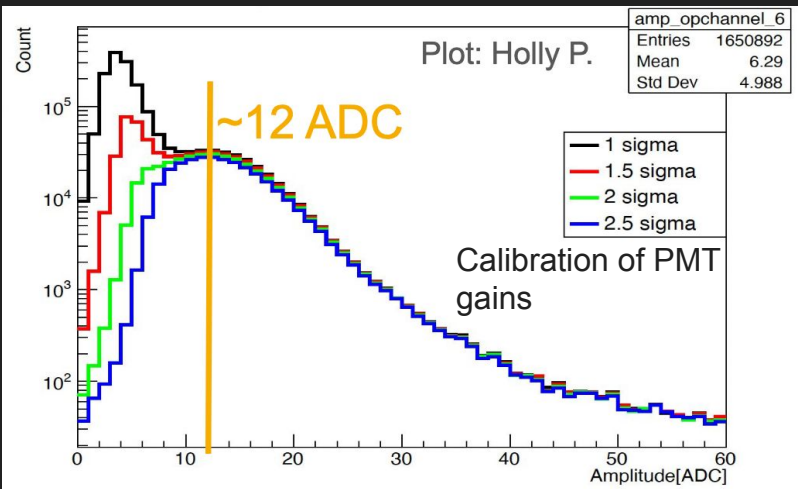
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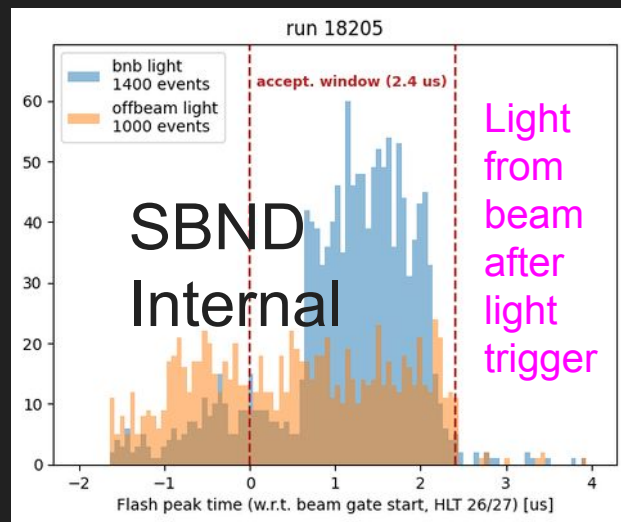
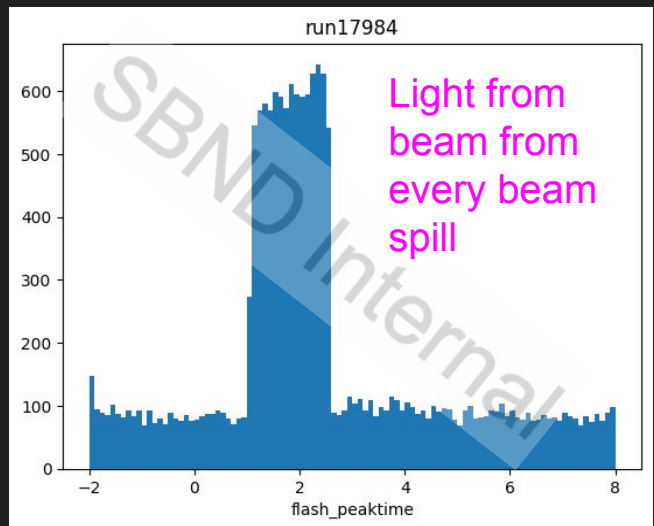


Status of Detector

- The core SBND subsystems (TPC, PMTs, CRT) are in a stable configuration for collecting beam data
- There is some planned work on the X-Arapuca photon detection system
 - This work is proceeding when we get beam downtimes

Trigger Development

- Thus far, we have been triggering on every beam spill sent by BNB
- We are close to enabling a light-based trigger
 - This will enable a big reduction in our data volume



Run Plan for Next Month

- We are currently running in a **3-trigger configuration**
 - On-beam zero-bias (every spill) (~ 5 Hz), Off-beam zero-bias (~ 2 Hz), Calibration trigger (~ 1 Hz)

- Our goal is to move to a **5-trigger configuration**
 - On-beam triggered (~ 0.5 Hz), On-beam prescaled zero-bias (~ 0.25 Hz), Off-beam triggered (~ 0.2 Hz), Off-beam zero-bias (~ 2 Hz), Calibration trigger (~ 1 Hz)

- We would run in this configuration until the summer beam shutdown