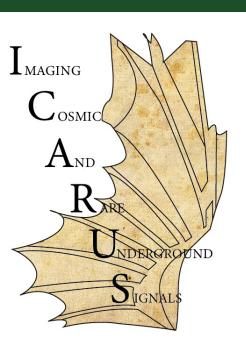
Status of ICARUS Run Operations

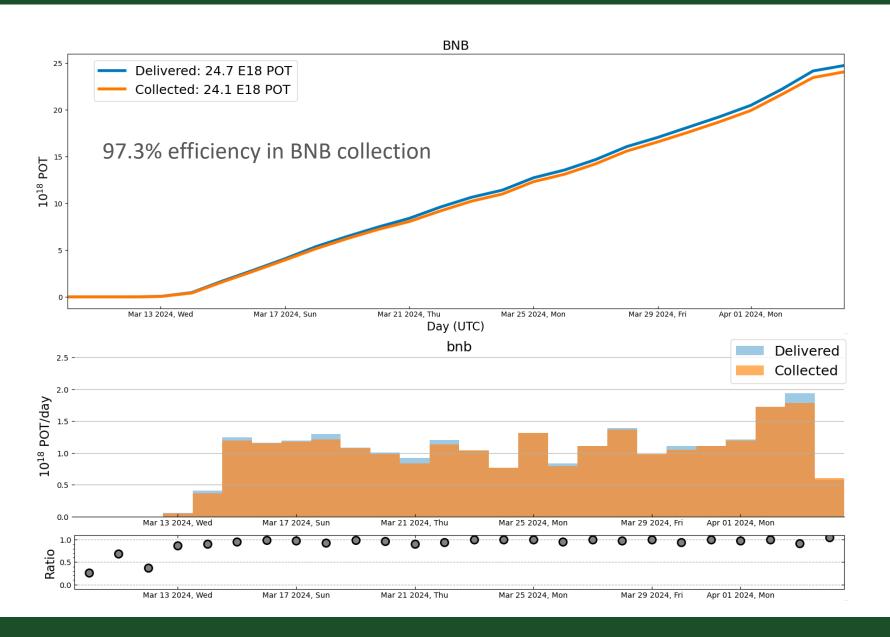


Ivan Caro Terrazas and Matteo Vicenzi
On behalf of the ICARUS Collaboration
Fermilab Proton PMG Meeting
04-Apr-2024



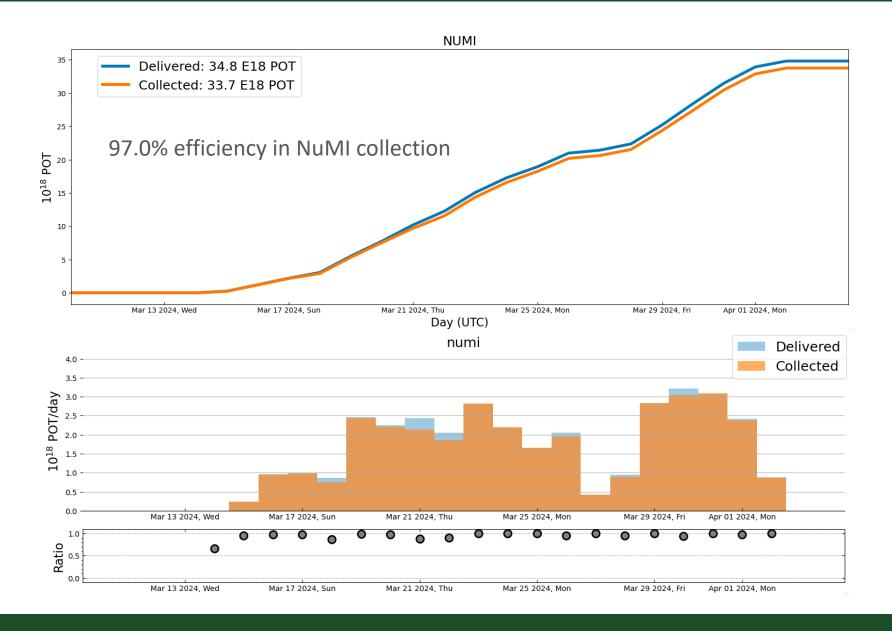


ICARUS Run3 POT Plots - BNB





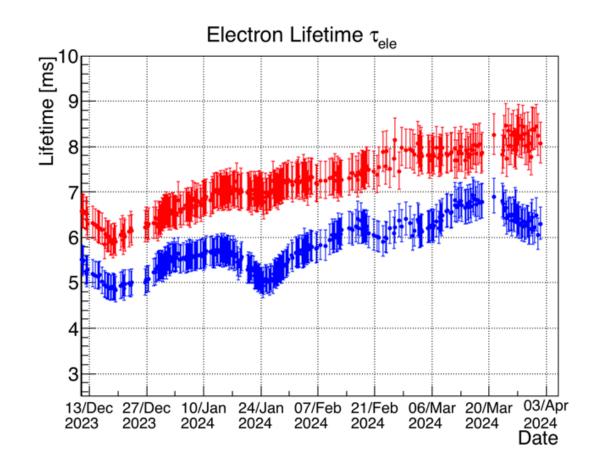
ICARUS Run3 POT Plots - NuMI





ICARUS Detector Purity

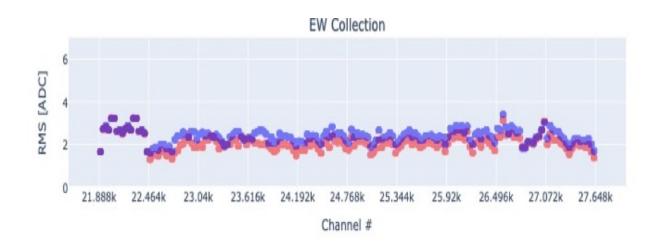
- The detector purity, measured using the value of the electron lifetime is pretty stable since the last PMG meeting
 - Very high across the entire Run3 period!
- Last measurement on Apr 01, 11:53 AM
 CT
 - West: ~8.10 ms
 - East: ~6.30 ms
- Electron lifetime is expected to stabilize

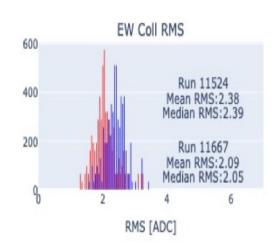




TPC Noise Reduction

- I MACHIO
 COMMIL
 AMO
 RETA
 TENAL
- Campaign to install Chebyshev low-pass filters on Collection and second induction readout boards carried out
 - First induction readout boards had these filters installed in 2022
- As a result, the coherent noise is reduced by 15-20 %





Without Filter
With Filter



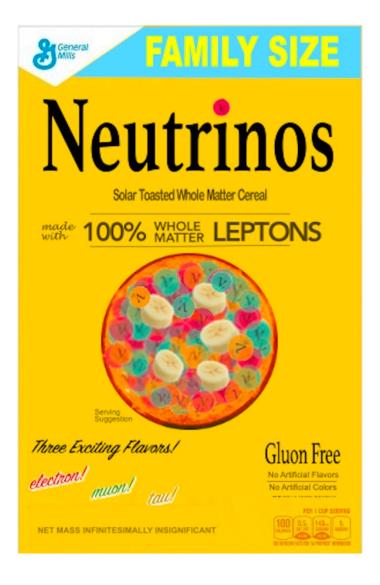
Summary

- ICARUS continues to take data from the BNB and NuMI beams for the past ~month with a very high efficiency of > 97%
- The collaboration thanks AD for the very high-quality beam
- Data acquisition has been running smoothly with only a few crashes
- Made improvements to lower the coherent noise on the readout boards
- No changes are expected in detector operations for the remainder of beam operations



Thank You







Backup



