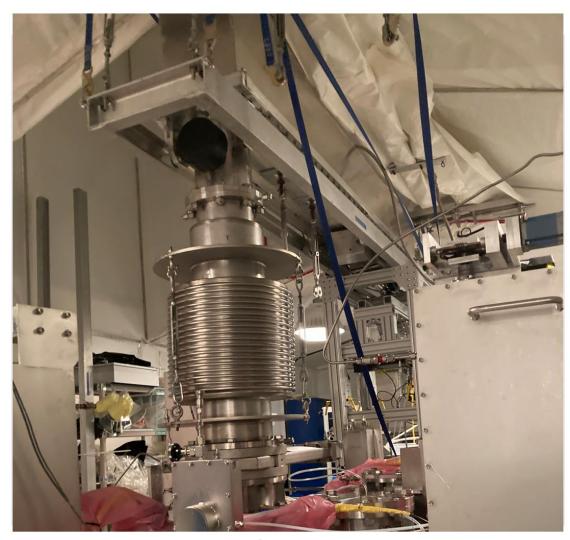


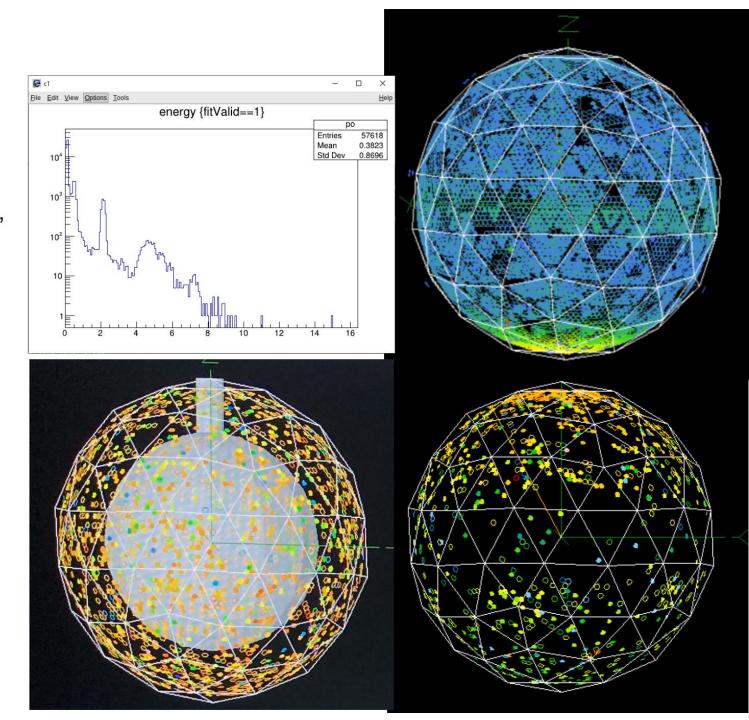
The Calibration Deployment System is Now Live

- Have deployed AmBe source into the detector
- Could smoothly move the source to the bottom of the detector
 - Umbilical ~15 cm short of the bottom of the AV
 - Combination of
 - URM positioning (too high) and
 - removing too much umbilical to expose the fibre (during the source connector installation)
- Intervention necessary to recover from hitting the limit
 - Retrieval smooth after intervention



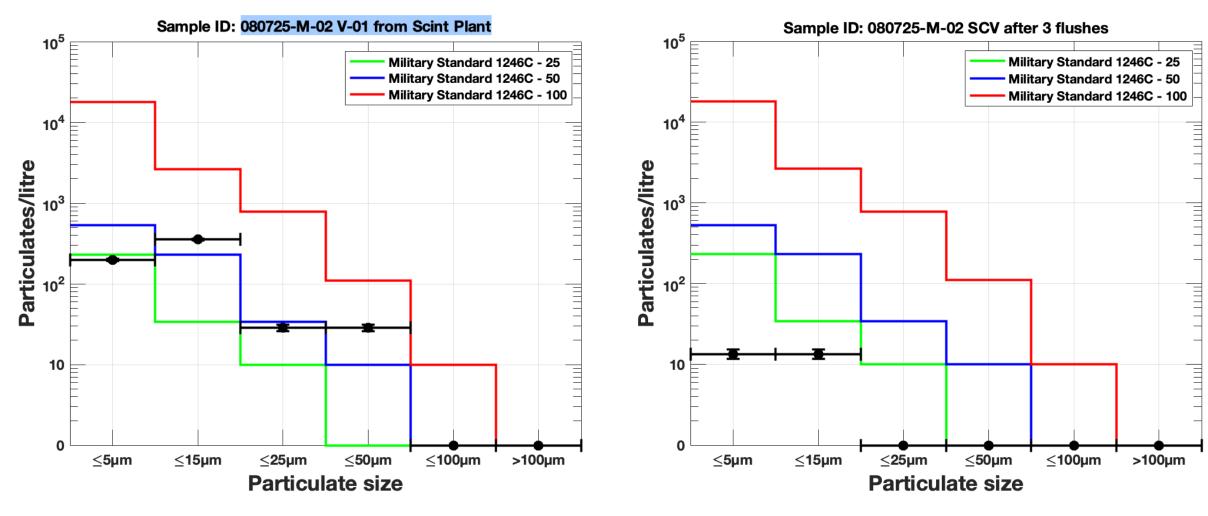
AmBe Source Deployment

- Z-scan only
- 20 minute runs at -550 cm, -400 cm, -300 cm,
 300 cm, 0 cm, 400 cm, 550 cm, 650 cm, 950 cm, 1150 cm
- 16, hour long, runs at z=-14.5 cm
- Various runs replicated interesting conditions
 - Near AV interactions
 - Clear internal reflection bands
 - Neck events
 - Central events









Goal is to be below the limit set by the 1246C-50 standard 80 photos taken of each sample

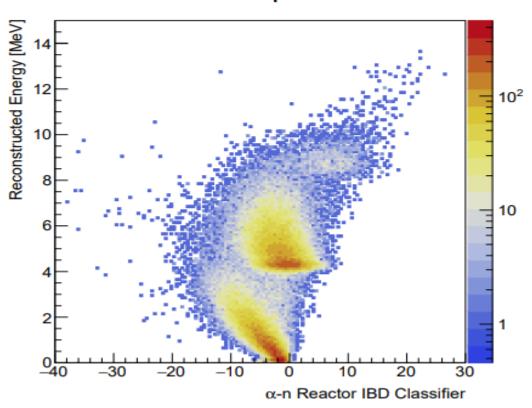
AmBe cleaning



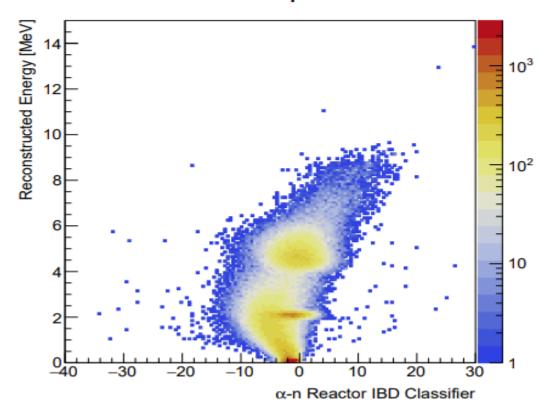


Performance of α -n Classifier

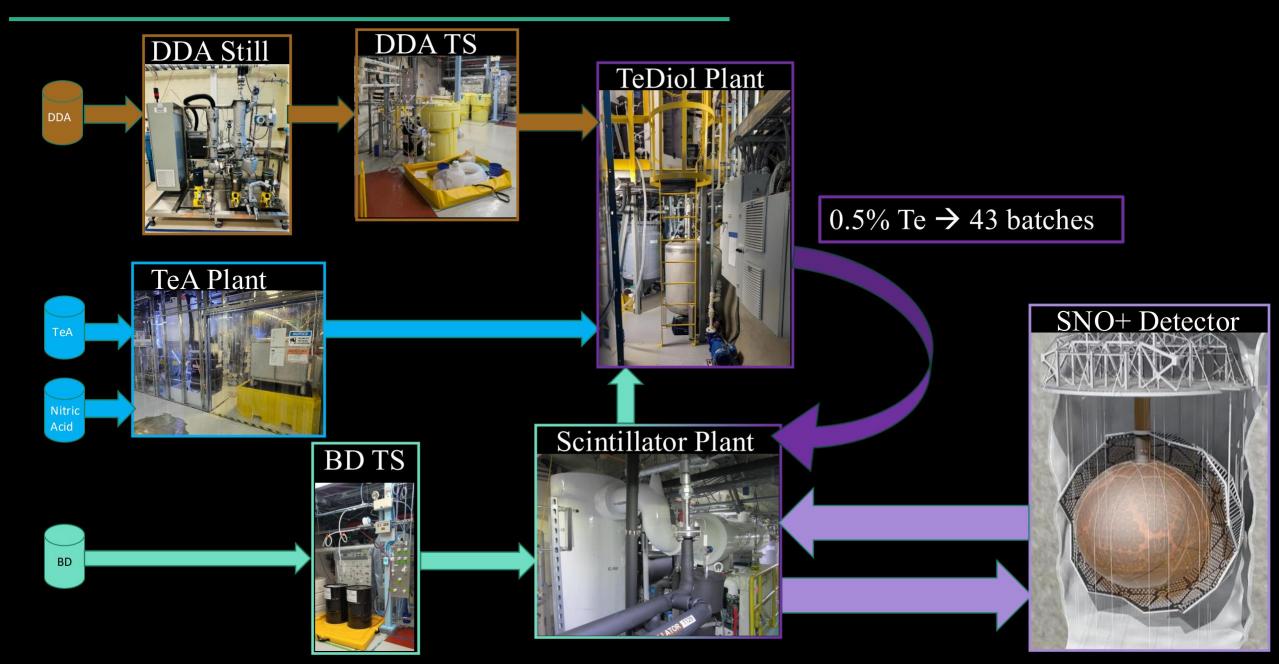
AmBe MC Prompt Candidates



AmBe Data Prompt Candidates

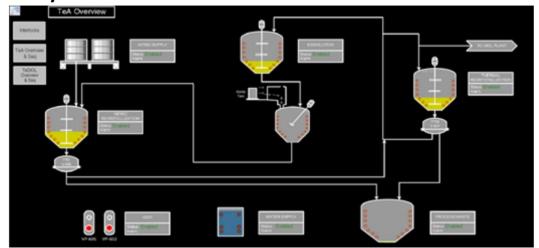


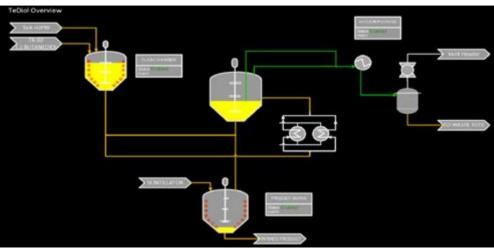
Process overview



Te Plants Leaching

- The fairly extended PMP allows us to use it for the 2nd leaching phase w/ nitric
 - Enough nitric acid is already underground
 - It would be pumped into the TWO plants and diluted down to 1% concentration
 - The RXT/FTM column will be left with the current solution of TeA
- After the PMP, this will also allow us to evaluate cleanliness of the entire system with ICP-MS

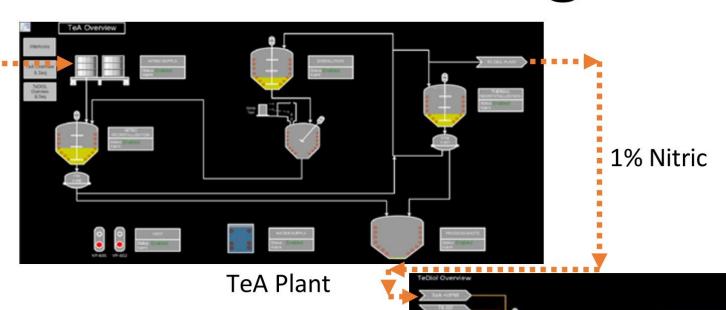




Te Plants Leaching



12% Nitric



TeDiol Plant

DDA Still "Operations Run"

- The week of July 2nd to 11th was focused on continuous processing one full drum (55-G) of Albemarle DDA
- Goal #1 was to test the 'operations run' with the most optimal parameters that were established during the 'commissioning run' of the still
 - 5 kg/h of feed, 70 C, 20 mTorr, 67% yield
 - With degassing, 1st and 2nd distillation
- Goal #2 was to train as many new operators, QA and spill responders as possible





DDA Still "Operations Run"

New team of trained operators, QA and spill responders (Thank you!)

• BNL (Minfang, Richard, Chris), Shaun, Brad, Matt, Scott, Po-Wei, Steve, Sahima, Lorna,

