



## **FAST Facility / IOTA**

### **Machine Report**

Daniel R. MacLean

AD-Ops Meeting

Friday, 0900

18-August-2023

# FAST / IOTA

- Relatively smooth week through Thursday PM, Cryo system failed overnight: currently down as of this AM
  - Not a surprise: Joaquim estimated loss of liquid Helium in some or possibly all SRF cavities sometime before E.O.W.
  - System has been unstable for close to a week (see: [246383](#))
  - Could take up to 1.5 weeks to recover / pump-down while purifiers are regenerated
- Problem w/Cryomodule HLRF charging supply continues to trip off the system
  - Charging Supply phase controller faults – *large overcurrents burn out fuses for different (random) 480 Vac phases*
  - EE Support personnel are aware & investigating, cause(s) currently unclear – *Nick Gurley & Co.*
  - Now have scope + transient recorder setup to monitor further trips w/greater resolution
  - Cleared to run in meantime until another trip occurs
  - See: [246299](#) & [246332](#)
- IOTA150-NIO running most days, NEB crew runs in the 50 MeV Line to the LEA 1 to 2 mornings/week
- IOTA150-NIOLD running mostly in-parallel w/NIO – *troubleshooting was required; dedicated shifts soon...*
- Contact me w/any beam or access requests [x6944, [dmaclean@fnal.gov](mailto:dmaclean@fnal.gov)]