



FAST Facility / IOTA Machine Report

Daniel R. MacLean AD-ARD Dept. Meeting Friday, 1100 11-August-2023

FAST / IOTA

- Smooth week, minimal downtime aside from minor nuisance trips
 - Cryomodule charging supply repair on Monday went well (see: 245924) thanks @ Nick & Eric from EE Support
 - CC1 RF began acting up in a similar manner as two weeks ago on Wednesday, vanished again after resetting the system
 - Partial RF fills lead to eventual klystron trip on reflected power
 - We suspect this may be an Interlocks issue at this point; noise spikes seen in waveforms from fw/ref power meters in klystron & cavity
 - We are continuing to monitor this and will investigate further during extended downtime cavity working normally otherwise
 - See: 245478, 246015
 - V106 (50 MeV Line trim) continues to trip on ~18 hour timescales not a huge deal but warrants investigation
- IOTA150-NIO ran all week w/NIOLD experiment running in-parallel in the ESB
 - Controlled access period Wednesday to re-wire IOTA octupole string to high-precision BiRa supplies
 - Still working to get these back online & talking via ACNET not used since OSC last year
 - Injection efficiency greatly improved compared to last week John able to take useful scans
- Today: NIO Controlled Access in AM, startup to establish 150 MeV beam to IOTA afterwards
- Schedule for next week still TBD, NIO takes priority— contact me w/requests

