



FAST Facility / IOTA

Status Report

Daniel R. MacLean
AD Operations Meeting
Friday 0900
3 March 2023

FAST / IOTA

- 5 MW klystron modulator for the Cryomodule has been down, holding off 150 MeV studies in IOTA
 - Repeatedly tripping off – *bouncer crowbar trigger on ground noise, SCR crowbar trigger self-firing, IGBT trip (lattermost is fixed)*
 - Ground-noise bursts measured on 24V control supply – *less frequent, could be transient from breakdown; causes bouncer crowbar to fire*
 - SCR crowbar trigger self-firing – *could be from noise; susceptible due to no 50 Ohm termination*
 - Pulse transformer oil in will require processing in the near future – *breakdown: ~7 kV @ 1 mm*
 - Investigation continued throughout the week; **cleared to run yesterday after several changes made within the modulator**
 - **Many** thanks to EE Support (Nick, Howie, Eric, Darryl) for their continued *efforts** towards getting us back to running in IOTA
- Have been running LINAC studies meanwhile
- **Next week:** planned shutdown for installation work within the FAST enclosure – *will drop to Supervised Access*
 - FAST-GREENS Stage-Ø (cont'd)
 - 700 Transfer Line to HEA
 - New stripline BPM pipe section @ C-Straight in IOTA
- Jamie also back next week – *will reassume role as FAST RunCo*
 - contact me with any issues / access requests until then
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* E-Log Entries:

- [234387](#)
- [234456](#)
- [234581](#)
- [234664](#)