



## **FAST Facility / IOTA**

### **Machine Report**

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AD-ARD Dept. Meeting

Friday, 1100

6-October-2023

# FAST / IOTA

- Running well, some minor issues w/machine but nothing currently holding us off – *24/7 shifts scheduled through weekend*
  - Node CLX28E (controlling IOTA octupole supplies) will periodically go into an unresponsive state / act erratically: requires soft-reboots
  - IOTA BPMs have been hanging up, require assistance from Instrumentation to bring back
  - CC1 RF issues may actually be originating from the LLRF system (ESECON)
    - Still investigating; no external support for that system – *thanks @ Ding Sun for helping w/diagnostics anyway*
    - May swap-out main board in the ESECON module when there is time – *not a top priority, will require some configuration (time)*
    - Running w/CC2 @ 14 MV/m meanwhile for 150 MeV injection into IOTA
  - Bulk supply for IOTA 2-Amps regulator chassis went down Monday AM, took out skew correctors, bump correctors, DN magnet + more
    - EE Support came out to take a look anyway; Pete Dimovski & Ty Omark were able to locate a spare and swap it out – *everything back online by 1400*
    - Massive thanks to Pete & Ty for helping out with that: was holding off measurements for IOTA150-NIO
- IOTA150 experiment crews rotating well, NEB crew wrapping up
- Re-calibrated IOTA sync-light PMTs Wednesday during dedicated PM shift – *G. Stancari*
  - Installed @ IOTA bend dipoles M2L & M3L
  - See: [248221](#)
- Rad monitor trip early this morning – **please be aware that sending >1 150 MeV bunch to IOTA is enough to trigger the Chipmunks @ ESB stairwell, will kill CDC & require permission from Rad Safety to resume beam operations**
- Run-4 end date contingent on IPI cable pull contract – *still in Procurement, confirmation expected within next ~few days*