



FAST Facility / IOTA Machine Report

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AD Operations Meeting
Friday 0900
21 April 2023

FAST / IOTA

- 2x Cryo system failures on Wednesday & Thursday; currently recovering
 - Wednesday afternoon: South MYCOM compressor tripped off out at Lab-B, took out KVS – *cavities warmed to ~4K*
 - Joaquim quickly diagnosed the problem, pumped the Capture Cavities & Cryomodule back down to 2K; no downtime
 - Thursday Morning: same trip scenario w/South MYCOM, this time the resulting loss of KVS allowed SFR cavities to get up to atmospheric pressure
 - Many thanks to Joaquim / Cryo for staying on top of it and trying to get us back up
 - See: [238655](#), [238710](#), [238742](#)
- Fortunately, we were able to inject beam into IOTA before the Cryo trips and CLARA was able to run their entire scheduled shift – *very little beam required: 10's of e⁻ are sufficient, long lifetime*
- Repairs to NMR probe installed @ LEA Spectrometer Dipole (D122) underway
 - Bad controller, no communication w/PRAC16 (see: [238727](#))
 - Need precise energy measurements for preliminary LINAC characterization (FAST-GREENS)
 - CHip is working w/EE Support to get this back online - *thanks*
- Next planned C.A. period is Wednesday AM, 26-APR – *assuming we get back down to 2K & settle today*
- Contact FAST RunCo (Jamie Santucci, x4996) with any additional Access requests