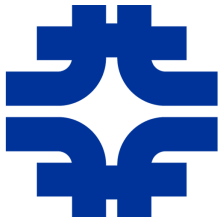


MTA Update

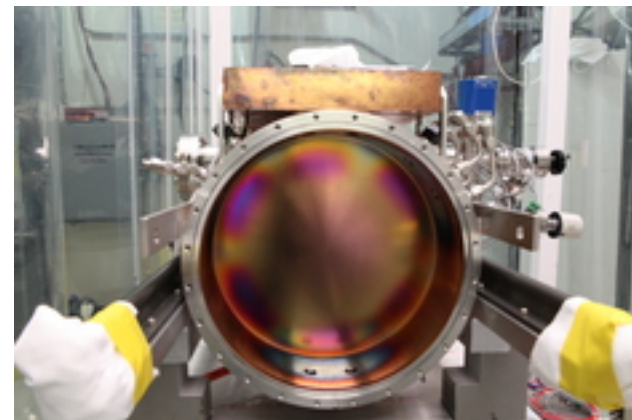


Yağmur Torun
Illinois Institute of Technology



MAP Weekly Meeting
FNAL – Oct 23, 2015

- Infrastructure
 - 805-MHz klystron replaced
 - DAQ hardware/software upgrades
- HPRF cavity
 - 1st high-power test run with dielectric loading finished last month
 - donuts inspected
 - assembly with new seals in progress
- Modular Cavity
 - (3rd half of) 1st B=0 run completed Oct 10
 - inspection in progress
- MICE cavity
 - on standby



- Ran for >140 hours over 13 days (Sep 28-Oct 10)
 - up 24 x 7 except during outages, equipment problems
 - with 93% shift coverage: Daniel Bowring, Ben Freemire, Terry Hart, Alexey Kochemirovskiy, Al Moretti, YT
- Safe operating gradient and breakdown rate vs gradient established in B=0 for Cu plates
- X-ray rates and spectra saved
- Data analysis in progress
- Removed Oct 12, partially disassembled Oct 19, inspection in progress

- Infrastructure
 - need to retrain solenoid
 - both RF stations under repair
- HPRF
 - new seals to be tested
 - run with the other alumina donut(s) when ready
 - prepare for beam test
- Modular Cavity
 - interior inspection
 - re-assemble, run ($B > 0$)
 - repeat
- MICE
 - vacuum system service before next run
 - explore dark current with new detector configuration
 - install new coupler(s) when ready
 - prepare for beam test
- Contingent on availability of RF sources, tech labor
 - Fermilab accelerator complex shutdown complete
- Analysis/documentation effort continuing
 - detector calibration
 - X-ray spectrum data

