

# MTA Status



Yağmur Torun  
Illinois Institute of Technology



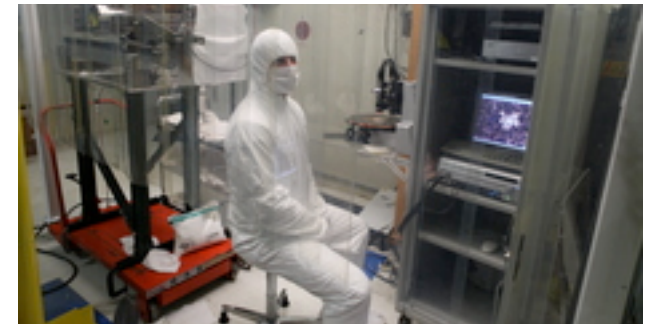
*MAP Weekly Meeting*  
*FNAL – Jan 29, 2016*

- Infrastructure
  - hall cleanup, clean room service
  - 805-MHz klystron modulator repair
  - 201-MHz tube replacement

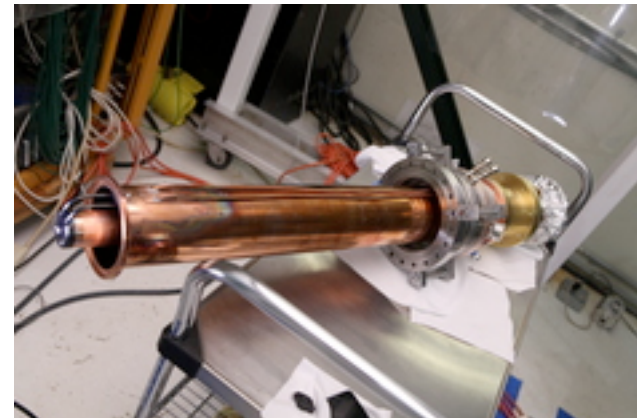


- HPRF cavity
  - run complete, interior inspected
  - reassembled with new electrodes

- Modular Cavity
  - post-3T-run inspection complete
  - assembled, ran at B=0, disassembled, inspected
  - assembled, installed



- MICE cavity
  - fixtures shipped to LBNL for RF module assembly
  - preparing for cavity inspection, coupler swap
    - clean room extension, various fixtures, auxiliary parts designed
    - couplers received from LBNL
      - leak checked, to be cleaned
    - expect to finish next week
    - start running in 2-3 weeks



- Infrastructure
  - solenoid tested to 4T
  - RF stations expected to be operational when needed
  - clean room to be expanded for MICE coupler swap
- HPRF
  - run with new electrodes, inspect interior
  - run with coated donut, new coupler
  - prepare for beam test
- Modular Cavity
  - complete post-3T B=0 run, inspect
  - re-run at B>0 post B=0 conditioning?
  - Be endplates
- MICE
  - inspect cavity, old (prototype) couplers
  - install new (production) couplers
  - re-run to complete RF module qualification
  - explore dark current with new detector configuration
  - prepare for beam test
- Contingent on availability of RF sources, tech labor
- Analysis/documentation effort continuing
  - surface mapping and analysis, detector calibration
  - HPRF beam PRST-AB in editing to address referee comments
  - other publications in preparation

- Clock is ticking
  - end of MAP MTA support March 31
  - running 24x7 whenever possible
  - everyone pitching in when needed

