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ILCTA-MDB Status  
1.3 GHz RF Power  
3.9 GHz RF Power  
Meson Detector Building  
June 15, 2006

[John Reid]

## 1.3 GHz RF Update

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### Capture Cavity II Status

- Installed rebuilt klystron (S/N: V108SK-8) into solenoid at Meson Detector Building on May 26, 2006.
- Started conditioning klystron the afternoon of May 26 with low filament power.
- Started HV conditioning on June 1.
- Ended HV conditioning on June 9.
- Klystron operating at -60 KV produces 287 Kwatts.

## 1.3 GHz RF Update

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### Capture Cavity II Status

- On June 10, 2006 coupler conditioning resumed.
- To first order, coupler Multipactoring remapping remains the same.
- Ran coupler with cavity warm and off resonance to 225 Kwatts with a bias voltage of + 1400 (250 uSec rf pulse).
- Cryo is cooling down the transfer line and should already be cold (June 14).
- CC II will cool down quickly once input coupler conditioning is complete.

## Work in Progress

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- 3.9 GHz 80 Kwatt Klystron
  - Presently assembling components into relay rack.
    - Water manifolds fabricated and installed in rack.
    - Machine shop is fabricating mounting plate for klystron.
    - Filament transformer + Sola ready to install.
    - Solenoid power supply installed in rack.
    - Ready for installation at AO by mid July.
- 3.9 GHz waveguide components
  - Most components in house, ordering some additional components for coupler testing & Horizontal Dewar.
    - WR-284 waveguide switches
    - Stub tuner
    - Dummy loads

## Work in Progress

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- Two additional small 60 KV modulators.
  - At 45 % complete.
  - Made good progress the last 2 weeks now that we have our two PPD people back from shutdown.
- Building one additional 70 KV charging Supply.
  - At 15 % complete.
  - No real progress this past month.
  - Concentrated efforts on modulator fabrication.