
ILCTA-MDB Status
1.3 GHz RF Power
Meson Detector Building

3.9 GHz RF Power
AO Building

September 21, 2006

[John Reid]

1.3 GHz RF Update

Capture Cavity II Status

- Cavity warmed up on 9-11-06 to perform scheduled repairs to tuner motor and address low frequency modes.
- Cryomodule end plates will be removed by the middle of next week.
 - 18HZ and 180 HZ modes will be addressed by adding intercepts on bellows.
 - Failed Sanyo tuner motor will be replaced with a Fpytron motor.
 - Additional instrumentation will be added while cryomodule is open.
 - Estimate ~ 2 months to complete.

1.3 GHz RF Update

300 Kwatt Klystron Status

- On 4-1-06 installed one of two rebuilt YK-1240 klystrons to replace original power limited (~100 Kwatt) klystron.
 - Conditioning took about 2 weeks to achieve full power (300Kwatts @ 60Kv gun voltage) at 1.5 msec rf pulse.
 - Ran without problems powering CC-II since installed.
 - Only reason to remove it is to test the second rebuilt YK-1240.
- The second rebuilt (YK-1240) tube will be installed next week.
 - Conditioning will start 9-25-06.
 - Dummy 50 ohm load has been installed on waveguide.
 - If all goes as well, conditioning will take about 2 week.

80 Kwatt Klystron



Work in Progress

- 3.9 GHz 80 Kwatt Klystron
 - Components assembled into relay rack.
 - Water manifolds fabricated and installed in rack.
 - Filament transformer installed.
 - Solenoid power supply installed in rack.
 - Ready for installation at A0.
- 3.9 GHz waveguide components
 - All components in house.
 - Circulator installed at A0
 - Some WR-284 installed
 - Awaiting arrival of coupler test stand to finish waveguide connections.

Modulator



Modulator - HV Compartment



70 KV Charging Supply



Work in Progress

- 60 KV modulators.
 - Fabrication complete.
 - Undergoing final electrical testing at MI-60.
 - One will ship to A0 on 9-22-06
- 70 KV charging Supply.
 - Fabrication complete.
 - Undergoing final electrical testing at MI-60.
 - Ship to A0 on 9-22-06.