

# High-k update

- Walked beam around in-vessel
  - No signal
- Verified microwave power entering vessel
- Poor tracking
  - Added amp to reference channel – tracking good now
- Power supplies - ok
- Digitized noise does not vary
  - Suggests electronics problem
- Trigger - ok
- Mixers are alive
- Initial test of I/Q electronics - ok
- 2<sup>nd</sup> stage amps – ok
- Installed crystal detector after 2<sup>nd</sup> stage amp
  - Signal observed
  - Suggests mixer, preamp (20 dB), and 2<sup>nd</sup> stage amp (40 dB) are all ok
- Plans
  - Remove attenuators (20 dB) before I/Q electronics
  - Isolated test of preamps
  - Revisit I/Q electronics