Status of FIDA systems

- Hardware upgrades completed
 - No major changes in number of channels, temporal resolution, etc.
 - Improved remote control of diagnostics' setup
- Spatial & photometric calibration will start on Thursday 12/4
- Analysis software under development
 - Add information from "red-shifted" side of FIDA spectrum to analysis?
 - 2009 Run: provide "preliminary quality" results accessible from MDSplus for each shot
- Both systems up & running for beginning of next Run

2009 Run - proposal

- Continue TAEs & TAE avalanches study
- Focus on "trigger condition(s)" for avalanches, including dynamics of TAEs just before avalanche
 - Establish TAE avalanche scenario in deuterium
 - Modify mode dynamics:
 - T_e scan (through HHFW) -> damping
 - NB source waveform -> fast-ion profile, drive (?)
 - Density scan -> damping
 - Toroidal field scan -> fast-ion confinement, drive