Cooldown Prep

- Point of no return is Oct 15: If we don't secure funds by that time we push till after Collaboration meeting

- Collaboration meeting is Nov 8-9, we should all go and present and get training out of the way if possible

- Down at Jlab for Oct 2-10

- Hope of have practice cooldown with LN2

- Check out safety docs for cryo-handling

Specialty Breakdown

- Zulkaida : Magnet, Turbo, LabView
- Josh: Microwave, NMR, LabView
- Carlos: Fridge, Annealing, Flows/pressure
- Liliet: Sensors Calibration, Target Material
- Arthur: E1039 systematics?

Magnet

- Power supply and Turbo setup

- Setup power supply and VI(DR) for magnet

- Setup turbo and control VI out of reach of the field as well as VI for pressure readout

- Setup trubo away from field, probably should setup fail safe system and with valve in case of turbo failure

- Setup temperature sensor and readout on PC

Fridge

- Connect fridge and utilities
- Calibration of manometer
- Repair temperature sensor connections
- Test valve clutches: protection and reproduciblity
- Setup software control of run/bypass
- Test valves and control of valves
- Setup inserts at least one for spin-1/2 and one for spin-1 (NMR coils, sensors, cups)
- Set up monitors on PC for insert and fridge

Microwave

- Setup micrwave controls

- Setup automation and reading pol. From twist

- Calibration procedure with saved calibration even after power loss

- EIO safety interlock

- Send out damaged tube to CPI

NMR

- Look at data taken for warm bench test: need ratio of areas

- Look at cold NMR test: compare LN2 to room temp.

- Get both UVA and LANL systems setup and ready to take data, with particular target insert

- Add cable length to cold NMR and test again

- Take more comparison data in collaboration with LANL on both cold and warm systems

Sensors

- Need sensors for stick, so give Carlos at least two that will be calibrated separately

- Setup calibration procedure for the rest for taking data, make sure can still be readout with new setup

- Write a plan for the calibration with the amount of time needed for the calibration and the resources needed

Material

- Know where the material is needed for cooldown: dewar, slot

- Should prepare for test loading and mock-cooldown

- Measure amount of material in the target cell (packing fraction)

E1039 Systematic

- What are we trying to achieve and within what uncertainty

- What are the dominant sources:

  - Detector

  - Target

  - Time dependent