# HDice Controls Meeting Minutes 09/08/2015

Present: Xiangdong Wei, Peter Bonneau, Brian Eng, Mary Ann Antonioli, and Sahin Arslan.

### ▲ Hardware Status

## ▲ Test station hardware

- Reassembled test station hardware in DSG EEL R121 Lab.
  - ▲ AC Power distribution panel installed and tested.
  - Oxford power supply, RF generator, Lock-in amplifier, RF Attenuation/Switching chassis installed.
  - ▲ Modification of test bench completed to allow access to 208V outlet.
  - ▲ GPIB, RS232, and RS485 interfaces installed.

# ▲ Test station computers

- A Received one of the two replacement computers.
- ▲ Added computer to Hall B experimental subnet (129.57.86.xx).
- ▲ Started installing software to support the test station. (LabVIEW and device drivers
- ▲ Delivery of 2<sup>nd</sup> replacement computer due by 9/11/2015.

### Software Status

## ▲ NMR Program - CAENels CT-Box System

- Developed LabVIEW device driver files for setting and CT-BOX device status readback for firmware commands, mode commands, and started data acquisition commands.
- ▲ Tested newly develop device driver files on the prototype CT-Box.

### Resolved Issues

- A Received updated manual from CAENels with error code appendix.
- ▲ Manual also had some of the updated commands and descriptions needed for program development.
- A Received from CAENels: triggering commands, pinout of the I/O connector, logic levels.

## Outstanding Issues

- ▲ CT-Box is not working in the HDice needed "Oscilloscope" mode.
- ▲ When issued an "OFFSET" command, unit gives an error readback.
- ▲ The OFFSET: ZERO command freezes the Daq.
- ▲ The internal buffer commands are not available in current command set.
- ↑ The error "CT-box Not Ready" is always on. "Reset" has no effect on the error.
- ▲ CAENels is working on these issues.

# Rotation of Target Polarization Program

- Modification for testing Rotation of Target Polarization Program with a single supply is underway.
- ▲ Detailed block diagram of program flow has been completed.

# Mathematica analysis code

- ▲ Each of the seven notebooks requires a certain number of data files in order to proceed. Memory stick received from BNL had sufficient files for *only one of the seven notebooks*.
- ▲ Craig Thorn at BNL will be contacted regarding the needed files.
- Next meeting: Tuesday, September 22nd at 11:00 AM in DSG Control Room (EEL R121C).