

HDice Meeting

Date: October 31, 2019

Time: 2:00PM– 2:30PM

Attendees: Peter Bonneau, Pablo Campero, Tyler Lemon, Xiangdong Wei

1. Windows 7 PC upgrade to Windows 10.

- 1.1. HDice group will send their last NMR rack PC to computer center for upgrade from Windows 7 to Windows 10.
- 1.2. After update to Windows 10, DSG will install LabVIEW and test NMR program on PC.

2. New lock-in amplifier.

- 2.1. HDice received a new lock-in amplifier that uses frequency variation rather than magnetic field variation to measure NMR signal.
- 2.2. Currently, HDice is using the lock-in amplifier's built-in web interface while connected to it via USB to run single NMR scans.
- 2.3. Xiangdong Wei will send DSG the manual for the lock-in amplifier so DSG can start looking into what would be needed to develop a new NMR program for it.
- 2.4. DSG will then give an estimate on amount of work and time needed to develop a new NMR program for new lock-in amplifier.

3. ERR scheduled for November 19, 2019.

- 3.1. In support of the ERR, DSG has created a [HDice technical documentation area](#) on our public website. The site features manuals and specifications, DSG program flow diagrams, and schematics on the NMR racks and the IBC pump cart.

4. RF cable components.

- 4.1. DSG has connectors and connector adapters for 9 BNC and 2 SMA terminations using the RF air-core cable.

5. Post-ERR UITF operations may depend on availability of cryogenics for cryomodules.

- 5.1. HDice would have to coordinate with SRF in Test Lab to get helium to cool UITF cryomodules.