

HDice Status Meeting

Date: October 9, 2020

Time: 11:00AM – 11:30PM

Attendees: Peter Bonneau, Pablo Campero, Brian Eng, Tyler Lemon, Amrit Yegneswaran

1. Discussed HDF5 file conversion and upload to the Zurich lock-in amplifier and the issues faced
 - 1.1. Tyler Lemon will write a detailed overview of why HDF5 files are needed with the lock-in amplifier and past issues
 - 1.2. When Zurich lock-in amplifier creates an HDF5 file, it adds several attributes that it looks for when the file is loaded back to the lock-in amplifier; if all attributes do not match what it is expecting, an error is returned
 - 1.3. Currently, Tyler Lemon is using an HDF5 file editor to manually edit files and check what attributes and data sets are needed; once determined, an automated program will be made that only requires the user to input a data file to load into the HDF5 file
2. HDice will be given a trial period for the boxcar averager by Zurich; dates have yet to be determined

Zurich Lock-In Amplifier-Based fsNMR System Diagram

