DSG-NPS R&D Meeting Minutes

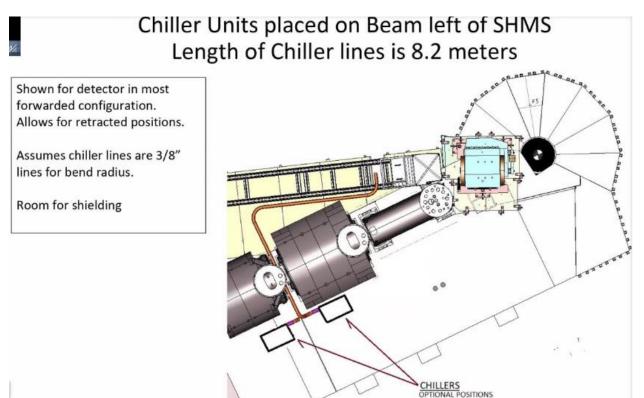
Date: June 15, 2021 **Time:** 11:00AM – 12:10 PM

<u>Attendees</u>: Mary Ann Antonioli, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Hardware interlock system development

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

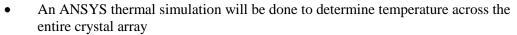
- 1. Reviewed spreadsheet detailing the number of multiplexers to be installed in the Keysight mainframe and the number and type of sensors connected to each multiplexer
- 2. Discussed distance from detector frame to the shielded area and need for D-sub extension cables
 - A drawing will be generated showing connections from the crystal zone thermocouples to the Keysight mainframe; mainframe and chillers to be located in the shielded area

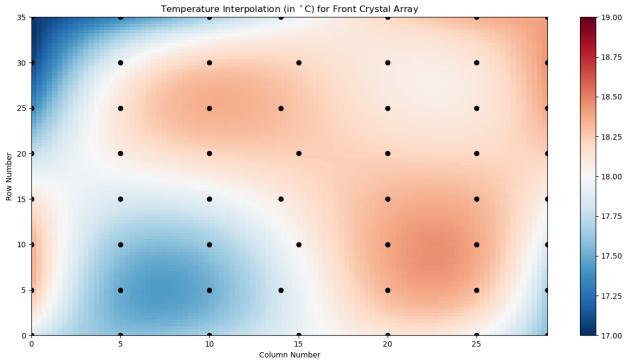


Planned location of shielded area for chillers and Keysight mainframe (per Steven Lassiter)

3. Reviewed cooling circuits presentation from IPN Orsay

4. Reviewed surface plot of the front crystal zone temperatures generated using random numbers between 17°C and 19°C





Surface plot of interpolated front crystal zone temperatures generated using random numbers for the 56 temperature sensors

2. HV supply cable fabrication/testing

Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, Mindy Leffel, and Marc McMullen 1. Mindy Leffel has completed fabrication of the 140' HV supply cables – 40 total

 Long-term cable testing, with load, in progress; plots uploaded to <u>DSG NPS Technical</u> <u>Documentation</u> webpage