

DSG-Ansys R&D Meeting Minutes

Date: January 27, 2022

Time: 14:00 to 15:00

Attendees: Aaron Brown, Pablo Campero, and Brian Eng

1. NPS thermal analysis

Aaron Brown and Brian Eng

1. Brian Eng fixed issue with two headers per measurement generated in the text file
 - Write command line was incorrectly located inside the for loop
2. Discussed how to run only Ansys Mechanical Scripting code
 - Currently code runs on Ansys Mechanical Scripting to export the data file with crystal temperature measurements and a Python code is used to parse and analyze the data
 - Plots and tabular data are available directly from Ansys
 - Libraries for data analysis in Ansys Mechanical Scripting will be investigated

2. EIC beryllium section

Aaron Brown, Pablo Campero, and Brian Eng

1. Aaron Brown's computer has Ansys Fluid Flow Fluent installed, which can be used for the fluid simulation in the inner face of the beryllium pipe and in the annulus space (between outer face of beryllium pipe and inner face of silicon sensor L1)
 - Generated a simple model to test that software was working
 - Checked licenses availability
 - Brian Eng will contact Jlab tech support to ask for installation of Ansys Fluid Flow Fluent for other DSG members