

## DSG-Ansys R&D Meeting Minutes

**Date:** May 26, 2022

**Time:** 14:00 to 15:00

*Attendees: Aaron Brown, Pablo Campero, and Tyler Lemon*

### 1. NPS thermal analysis

*Aaron Brown, Pablo Campero, and Marc McMullen*

- Working on CFD thermal simulation in Ansys Fluent to include heat exchangers fans
  - In Ansys Design Modeler, added fan blades to the simplified model
  - Meshing simplified model

### 2. EIC beryllium pipe section thermal analysis

- In Ansys Fluent, ran simulation for model with separation of 4 mm between the outer face of Be pipe and Si sensor layer 1.
- Generated plot with all measurements
- Discussed Python 3D plots of separation, air flow, and air velocity, based on the data acquired in Ansys

