DSG Ansys R&D Meeting

Date: May 11, 2023
Time: 2:00 PM – 2:30 PM

Attendees: Pablo Campero, Brian Eng, Marc McMullen, and Tyler Lemon

1. **EIC beampipe test stand thermal analysis**
   Pablo Campero, Brian Eng, and Marc McMullen
   1. Generated 3D model in SpaceClaim
      - Includes 1-mm aerogel surrounding the beampipe
      - Added four, ¼-inch connectors to supply air in the same way as the test stand assembly
      - Extended length of each component from 12 to 18 inches
      - Added a cap to the inlet end
   2. Ran first simulation, but results for temperature in the components were incorrect
      - Checked configurations for Ansys Fluent
      - Modifying geometry for the air inlet connectors to make sure each goes all the way through the annulus space
   3. Discussed air flow conditions and temperature measurements of the test stand
      - Identified sensor locations in test stand so probes in Fluent can be placed in the same locations