

## DSG Ansys R&D Meeting

**Date: June 1, 2023**

**Time: 2:00 PM – 2:30 PM**

*Attendees: Aaron Brown, Pablo Campero, and Brian Eng*

### 1. EIC test stand thermal analysis

*Pablo Campero, Brian Eng, and Marc McMullen*

1. Discussed improvements to the model
  - Measured length of each component of the test stand
  - Verified RTD sensor locations
  - Changed each component based on the measurements and location
  - Created new part with all air inlet connectors
  - Relocated air inlet connectors
  - Changed heater from a solid to a pipe
  - Working on the annulus space and beampipe inner volumes

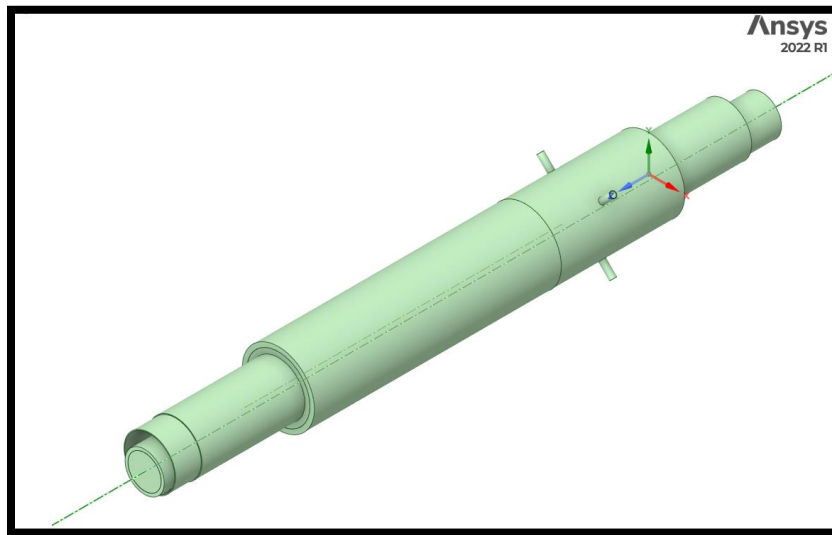


Fig.1. EIC test stand modified model

2. Discussed thermal boundary conditions to be made close similar to the test stand
  - Heater pipe in the test stand does not have a fixed temperature
  - Will include mineral oil inside the heater pipe; Brian Eng will provide the thermal properties of the mineral oil