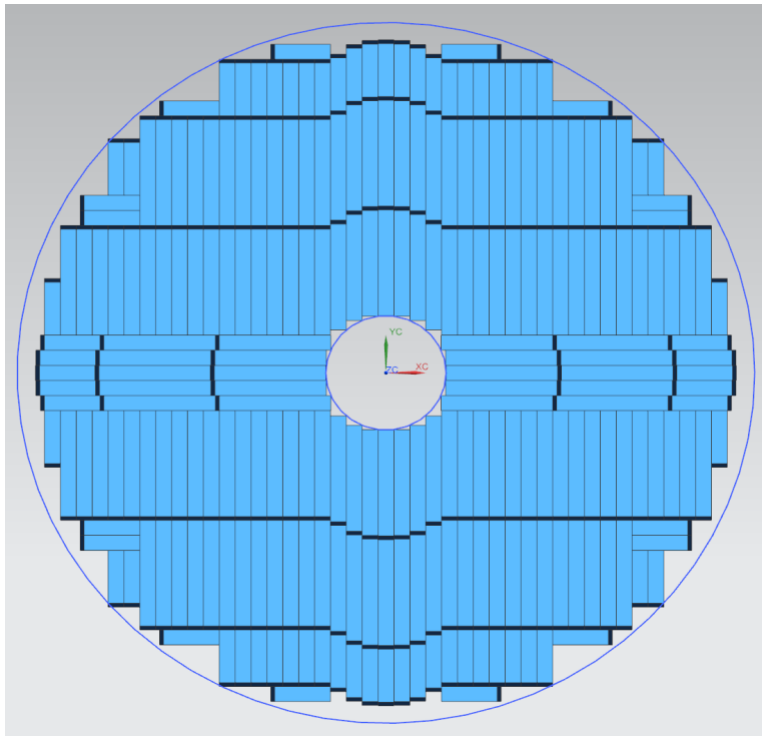# DSG EIC Tracking

Date: 07/12/2023
Time: 11:00 – 12:00

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, and Marc McMullen

1. **Disk Sensor Layout**
   Chinmay Andhare, Brian Eng
   1. Sensor layout using 3 and 6 "unit" length sensors done for all disks; HD disk 5 shown
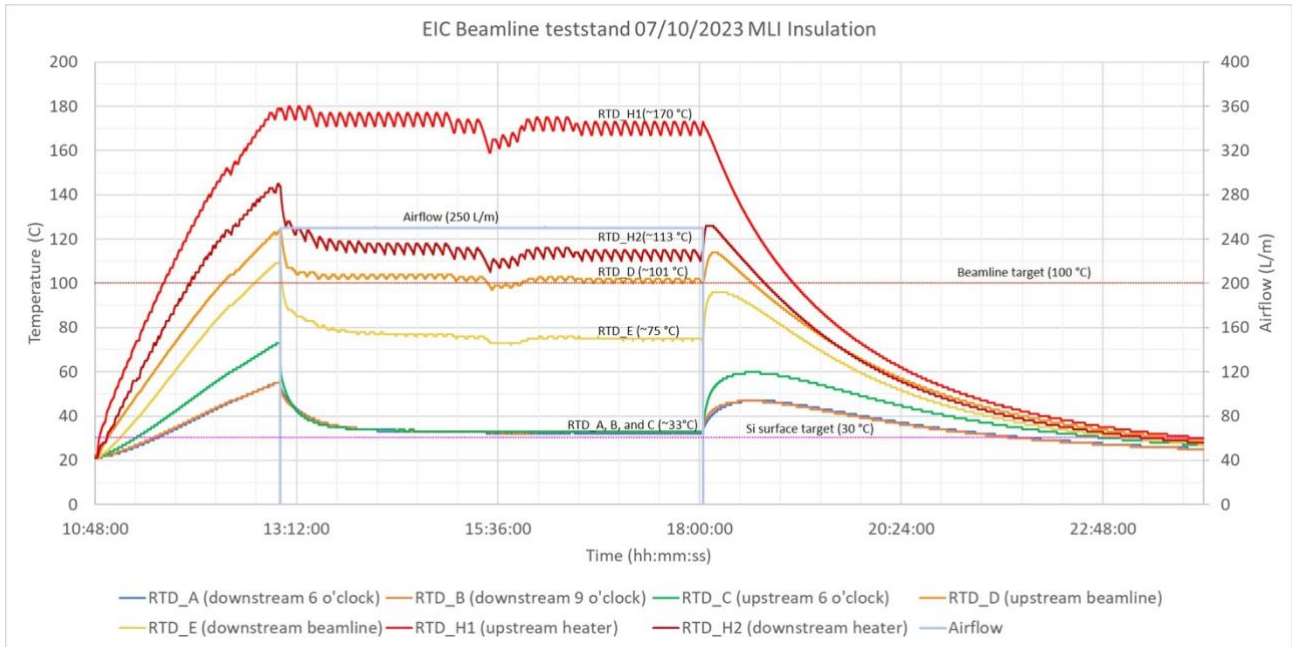

   2. Layout also done using full length sensors (12 units); generally less total sensors needed, but possible yield issues with such long sensors. Coverage is generally similar within -2.5% to +5%

2. **Beampipe Test Stand**
   Brian Eng, George Jacobs, Marc McMullen
   1. Replaced Aerogel with aluminized Kapton — preliminary results
      - Lower heater pipe temperature needed to get beampipe to 100°C; slightly higher silicon temperature
        – Possibly due to higher ambient temperature

EIC Beamline teststand 07/10/2023 MLI Insulation

3. Ansys Fluent Simulations
   Pablo Campero
   1. Continued refining model
      - Used Boussinesq approach to vary density of mineral oil
      - Enabled gravity