



U.S. DEPARTMENT OF
ENERGY



EIC Beamline R & D Status

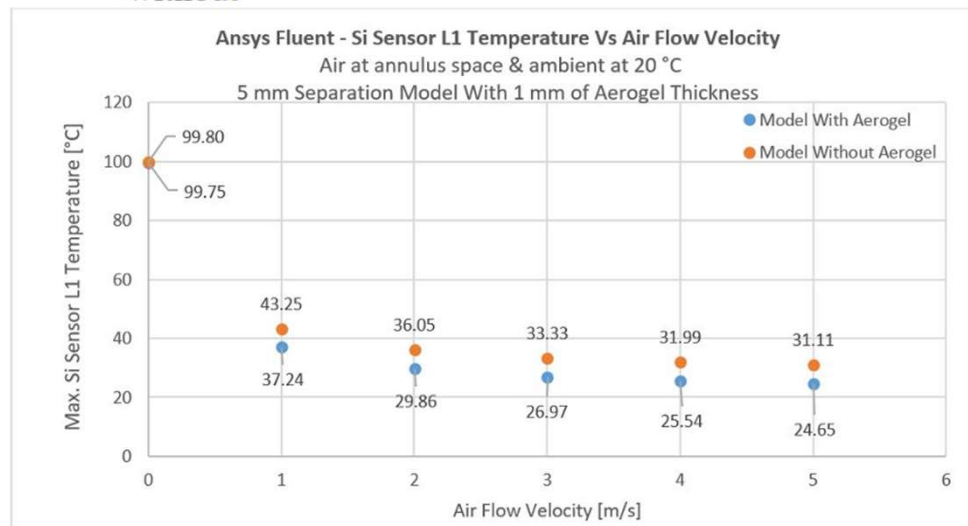
Detector Support Group
March 8, 2023

March 8, 2023

EIC

Brian Eng, Pablo Campero, and Marc McMullen

- Disassembled the thermal test stand
- Researched and ordered aerogel for insulating the thermal test stand
- Ran thermal simulation for model with 5 mm of separation between beampipe and silicon, with 1 mm and 0.5 mm of aerogel insulator and without insulator, and air flow through the annulus space and enclosure at 3 and 4 m/s
 - ★ Plotted results of silicon temperature vs velocity, with 1-mm thick aerogel and without



- Completed 3D model of beampipe used in test stand