DSG-RICH R&D Meeting

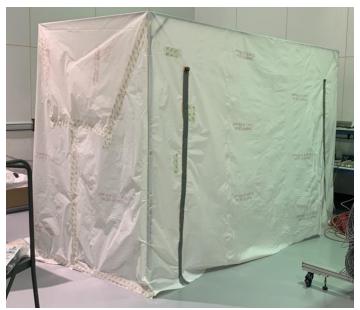
Date: May 2, 2022

Time: 11:00 AM - 12:00 PM

<u>Attendees</u>: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Dry tents for aerogel assembly

- 1. Frame of tent 1 covered with non-flammable plastic sheet
 - Sheet taped to frame with non-flammable duct tape
 - Magnetic closures added to front of tent for easy access



Tent 1 in EEL 124 cleanroom. Grey stripes down front of tent are magnetic closure strips.

2. 3D printer fabrication status

- 1. Nitrogen support bracket
 - Five of six fabricated
 - One cracked when removing supports and is being reprinted



Nitrogen support bracket

2. Camera support bracket

- Issue with part cracking during fabrication resolved by modifying support locations
- One of two parts fabricated



One successfully printed camera mount.

3. New reflectivity test station

- 1. Modified program to use two spectrometer integration times for higher and lower wavelengths to allow better reflectivity measurements at wavelengths less than 500 nm
 - Program now uses 125 μ s for wavelengths of 450 nm 1000 nm and 575 μ s for wavelengths of 200 nm 500 nm
- 2. With test measurement of RICH-1 sample 23, reflectivity measurement is still noisy for lower wavelengths (< 400 nm) since the light intensity detected by the spectrometers is still small