

DSG-RICH R&D Meeting

Date: April 25, 2022

Time: 11:00 AM – 12:00 PM

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

1. Collaborators planning to return the week of May 9, 2022 for:

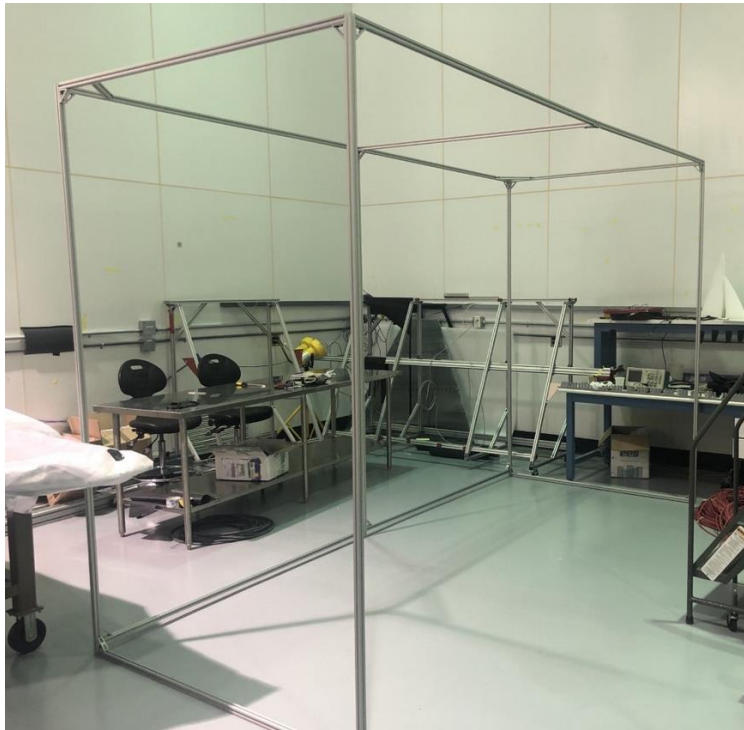
1. Mirror tests and installation
2. Gas-seal check of detector shell
3. Aerogel panel assembly and installation
4. Electronic panel installation
5. Detector shell survey
6. Detector installation in Hall B

2. New reflectivity test station

1. Prepared talk regarding new test station and its use for testing RICH-I samples; presented in April 21, 2022 RICH collaboration meeting.
 - [Link to talk on DSG website](#)
2. Next step: look into changing spectrometer settings to record measurements around 400 nm

3. Dry tents for aerogel assembly

1. Procured, received, and assembled extruded aluminum frame for one tent

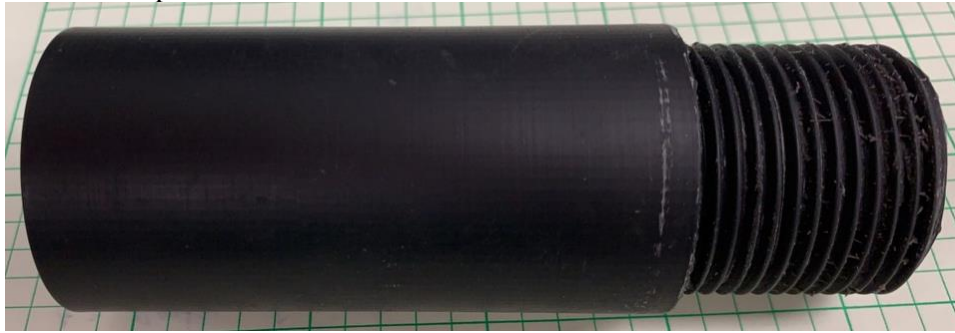


Frame of Tent 1 in EEL 124 cleanroom

2. Non-flammable plastic sheet and parts for second tent have been procured with expected delivery on April 26, 2022.

4. 3D printer fabrication status

1. Two containers of black resin for 3D printer received
2. Air exhaust adapter
 - Completed; six of six fabricated



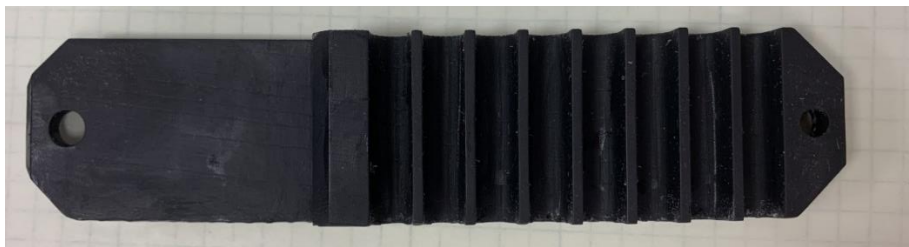
3D printed air exhaust adapter

3. Fiber support bracket
 - Completed; one of one fabricated



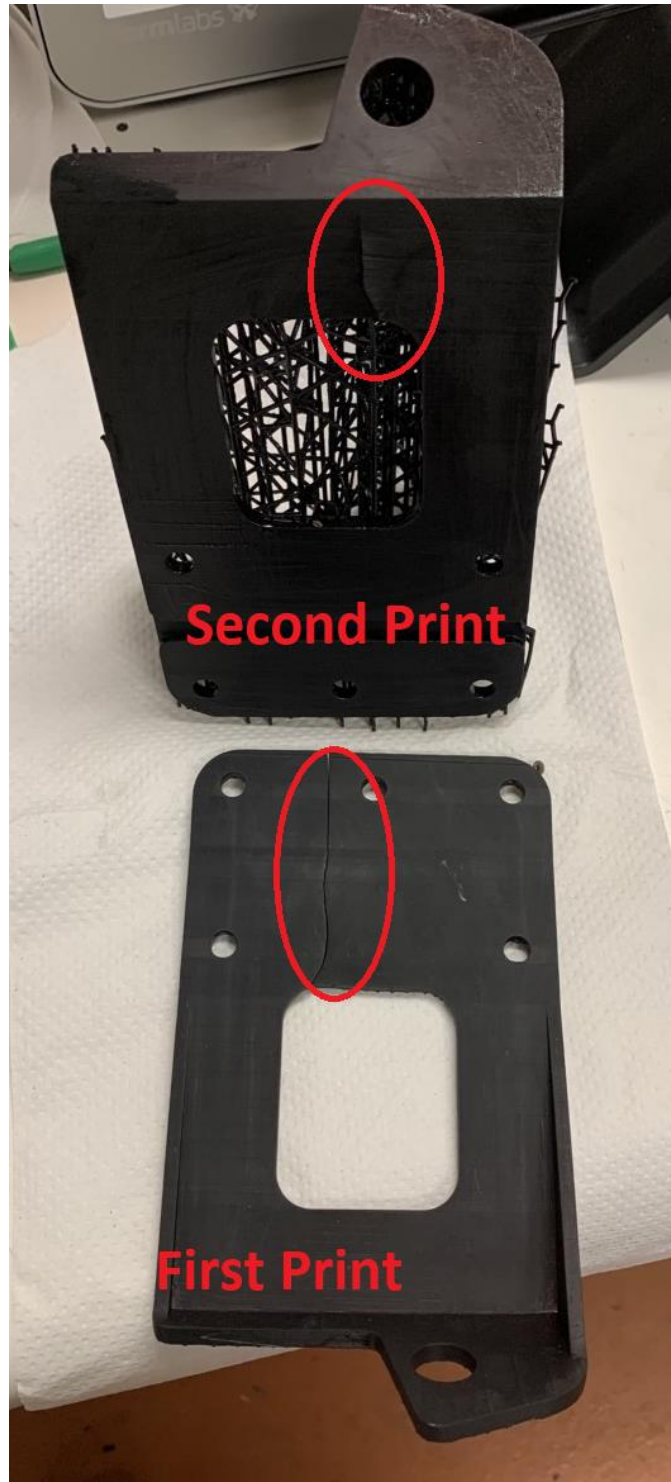
3D printed fiber support bracket

4. Nitrogen bracket
 - Test print complete
 - Waiting to hear from INFN collaborators for production
 - Five more needed



3D printed nitrogen support bracket

5. Camera support bracket
- Two test prints completed, but both prints cracked during fabrication
 - Second print was rotated 180°, or upside down, in respect to first print
 - Adjusting supports used in printing to see if it resolves cracking issue



Camera support bracket test prints with cracks