

DSG-RICH R&D Meeting

Date: March 28, 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, and Amrit Yegneswaran

1. INFN collaborators at JLab for RICH-II assembly

1. Marco Mirazita, Sandro Tomassini, and Dario Orecchini arrived at JLab on March 23
2. Their plan is to prepare RICH-II detector shell as much as possible in next two weeks for final installation steps
 - Making detector shell more gas tight
 - Installing hardware interlock sensors in nitrogen volume
 - Installing planar mirrors in detector shell
 - Preparing for aerogel installation
 - Preparing for spherical mirrors installation

2. Spherical mirrors

1. Anticipate all 10 mirrors at JLab in mid-May
2. INFN collaborators will meet with CMA in coming week to discuss progress on mirrors
 - Tyler Lemon's trip to CMA may be canceled to gain one week of time for mirror coating, increasing chances that mirrors will be received on time for RICH-II's June 2022 completion goal
3. INFN collaborators discussing mirror coating with Evaporated Coatings, Inc. (ECI)
 - Expect to take ~3 weeks for final reflective coating to be applied to mirrors
 - Ideally, two mirrors would be coated, sent to JLab, and tested to verify they meet required specifications
 - Upon verification of specifications, remaining eight mirrors would be coated, sent to JLab, and tested

3. Gas system setup in EEL in progress

1. Hall B Engineering had Test Lab's N₂ dewar routed to EEL and then plumbed to EEL 124 for RICH-II N₂ purge system, eliminating need for small dewars
2. Air-cooling panel and compressor in process of being moved from Hall B to EEL