

UV Reflectivity Test Station Meeting

Date: October 10, 2023

Time: 3:30 PM – 4:30 PM

Attendees: Aaron Brown, Tyler Lemon, Bill Li, Matthew McEneaney, Anselm Vossen, and Zhiwen Zhao

1. Reviewed slides detailing DSG's proposal for a UV-capable probe and test station

1. [Link to slides](#)

2. Discussed slides

Tyler Lemon, Bill Li, Anselm Vossen, and Zhiwen Zhao

1. Bill recommended investigating integration spheres for recollector instead of convex lenses
 - Integration sphere may help ensure all light reflected off mirror is recollected for measurement
2. Bill is procuring a stabilized deuterium lamp and will loan it for development tests
3. Anselm expressed concern over whether the reference and measurement legs of proposed set up will result in two test beams of comparable intensity
 - Ideally with no mirror, results from two legs should be equal
 - If there is a difference, it could be compensated by calculating a correction factor

3. Table of detectors with mirrors to be tested and desired wavelength of test beam

1. Collaborators will verify wavelength specification for each detector and provide missing information in table below

Project	Detector	Wavelength [nm]
EIC	Proximity-focusing RICH (pfRICH)	300
EIC	Dual-radiator RICH (dRICH)	???
SoLID	Heavy Gas Cherenkov (HGC)	200

4. Courses of action

Tyler Lemon, Anselm Vossen, and Zhiwen Zhao

1. Tyler will investigate whether using an integration sphere is better than using a convex lens
2. Tyler will distribute parts list with total cost and wait for an approval from collaborators before submitting procurement
3. Zhiwen will look into what charge code should be used for any procurements
4. Zhiwen and Anselm will provide information on size of final mirrors to be tested