

pfRICH Engineering/Design Update

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Updates/Discussions

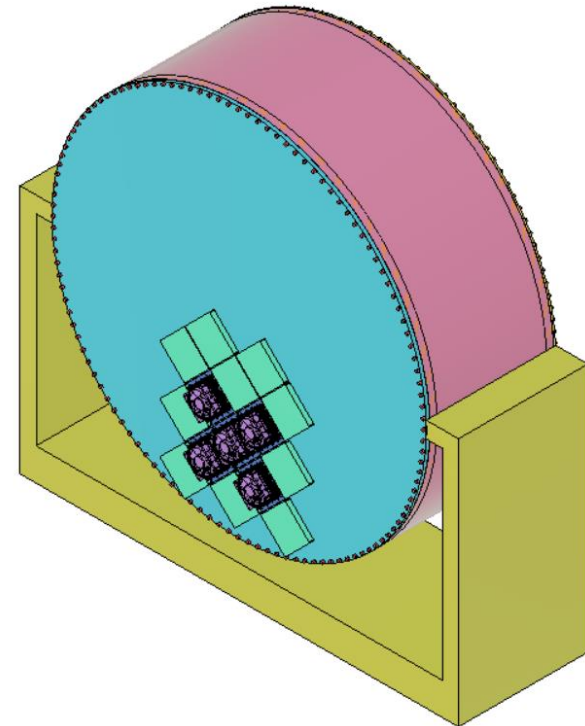
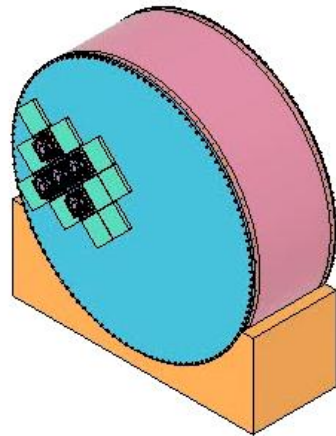
- Decision was made to move forward with 0.25mm carbon for the vessel cylinder design based on TPC construction
- Discussions about a need for clearance between the end ring and the CF due to the end ring material choice
 - TPC used aluminum end rings and the CTE difference was enough to heat up the ring slightly and put it in place.
 - CF has a much CTE and will need to have tolerance built into it
- Discussions on new coatings by SBU, expecting a plot in the near term with data regarding the mirrors

Updates/Discussions

- Radiation hardness check for various componentry
- Discussions about sealing the carbon shells to the end rings
 - 3M DP-460
- Discussions about grounding and conductivity of carbon fiber shell/isolating to ground

Rotation of Vessel During Beam Test

- Discussion about rotating the pfRICH on a stand during the beam test
 - Need accurate tent dimensions and angle descriptions



Rough Nitrogen Concept

- Discussions about feed-through for nitrogen and preliminary discussions on placement within the prototype
- Estimates are about 30 minutes for purge time (a few volume exchanges)

