SVT – PST CAD Updates

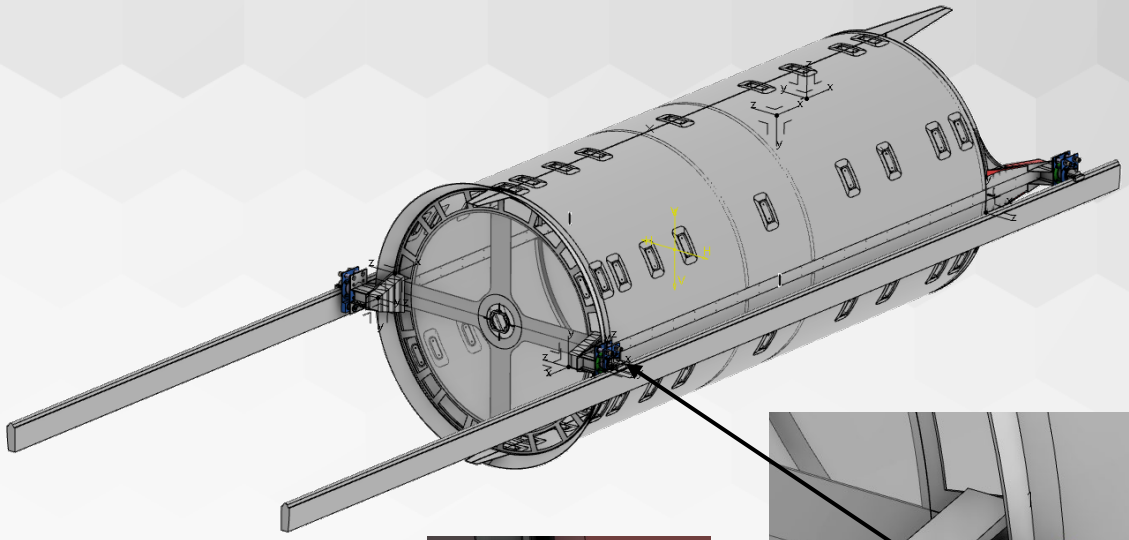
23 June 2026

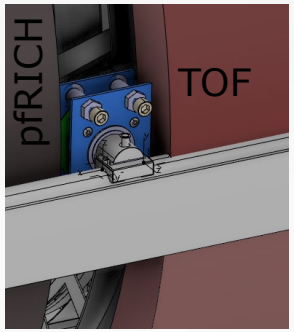
Ben Denos, Andy Jung, Sushrut Karmarkar, many others

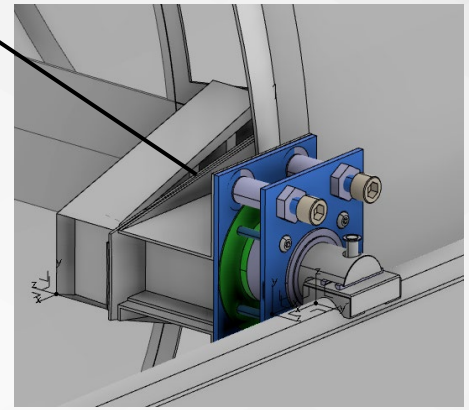
Purdue University

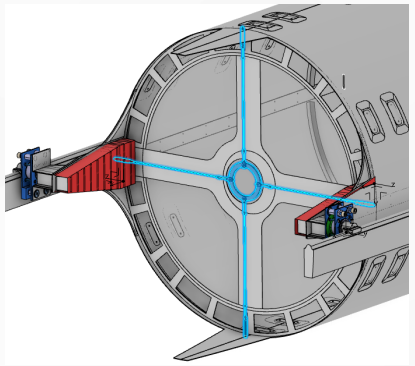
PST Updates

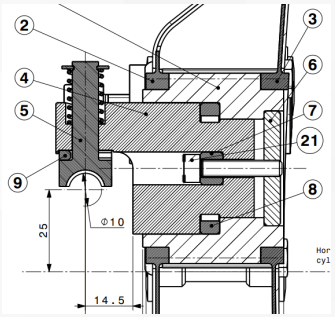
- Initial GST rail design
- Initial GST rail support foot
  - Match EEEMCAL foot as much as possible
  - May need re-work for TOF service clearances
  - Desire to make adjustable at GST rail ends
- Beampipe support and adjustment still work in progress
  - Adjusters at PST outer radius, BUT desire adjustment from GST rail ends
  - Still working to confirm beampipe centering and alignment requirements, within PST, as PST package in GST, as GST package in detector







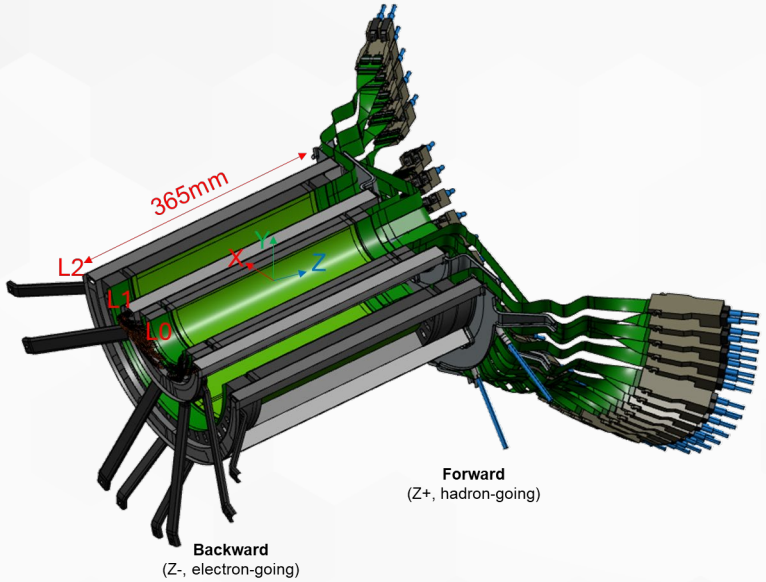




Sub-Assembly Design Status

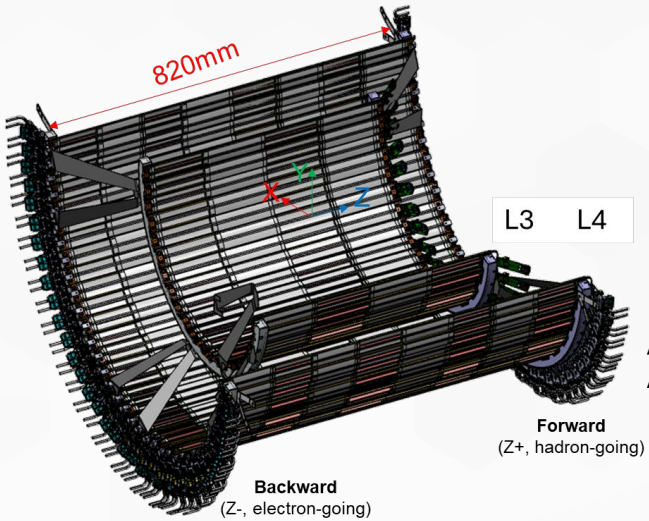
Inner Barrel

- Points of Contact
  - INFN - Rosario Turisi, Domenico Colella, Domenico Elia
- Mass Estimate ~2kg (no services)
- Model from Mar 2026



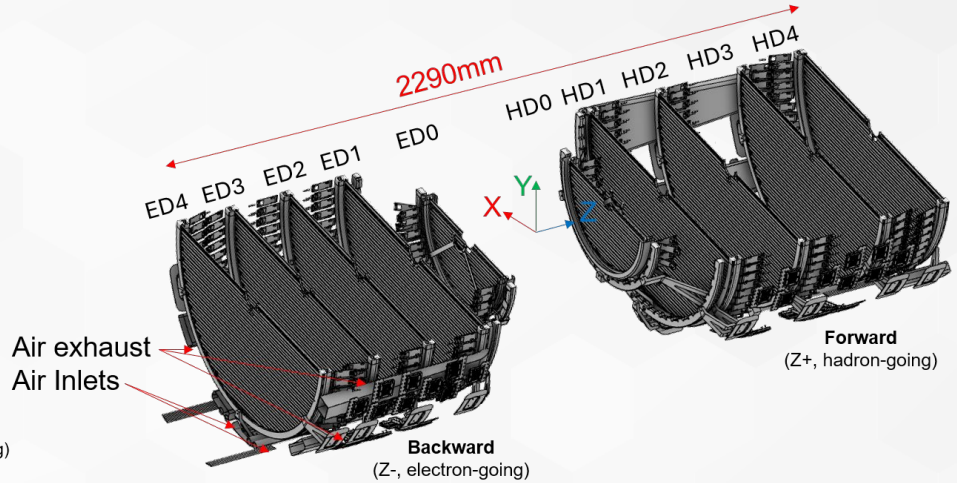
Outer Barrel

- Points of Contact
  - UK (detector, services, controls)– Georg Viehhauser, Adam Huddart, James Glover
  - LBL (support cones) – Joe Silber, Elaine Buron
- Mass Estimate ~7kg (no services)
- Model from Jan 2026



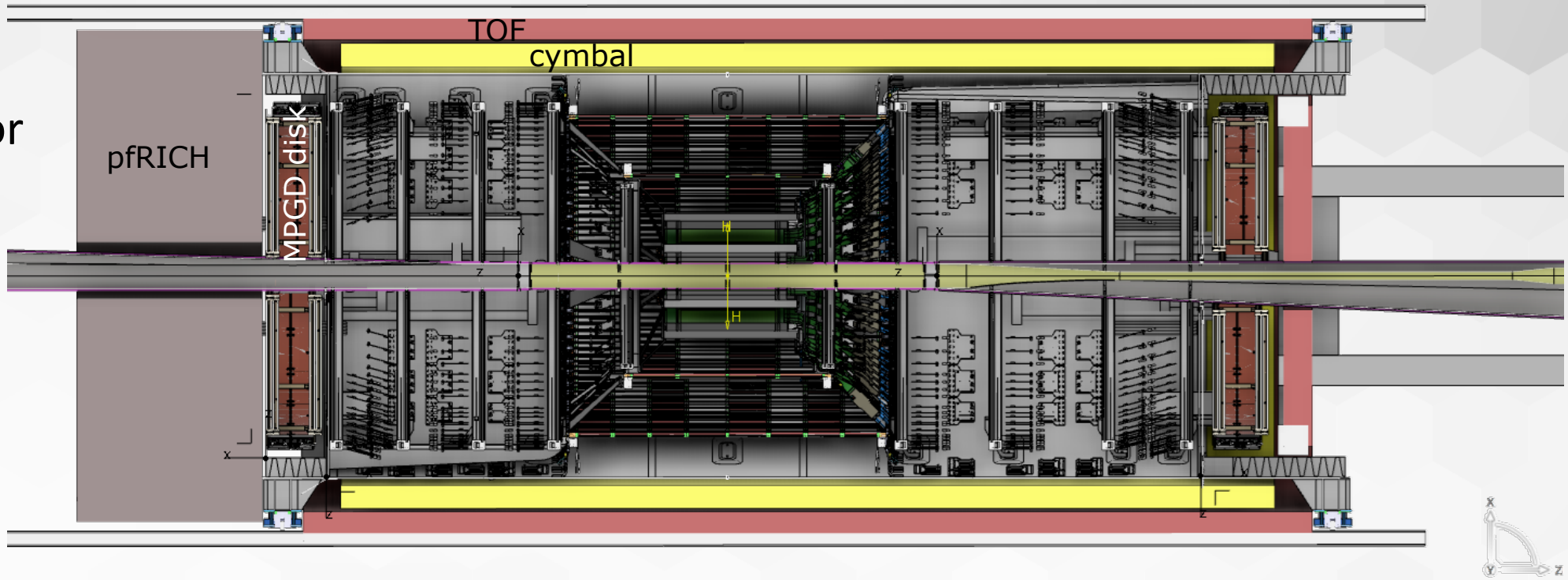
Disks

- Points of Contact
  - LBL - Nicole Apadula, Joe Silber, Elaine Buron
- Mass Estimate ~28kg (no services)
- Model from Apr 2026



Latest Assembly X-Z Plane View

- April 2025
- Uploaded to Google Drive for WP4/6 group
- MPGD (ECT) Disks diameter decrease to 460mm



Backward
(Z-, electron-going)

Forward
(Z+, hadron-going)