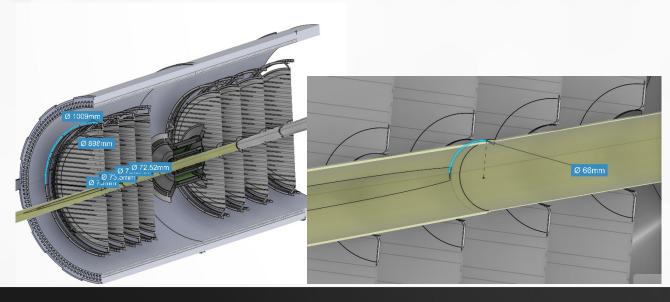


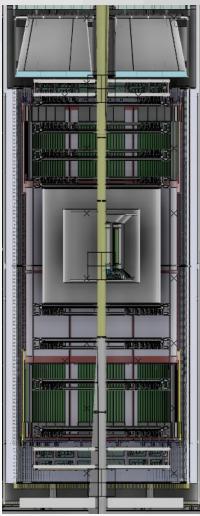


SVT Silicon Disks Clearances for Removal

- Disk Radii
 - Ri = 36.5mm
 - Ro = 449mm
 - Rframe (current) = 504.5mm
- "PST" Inner Radius (current) = 514mm



- Beampipe wide axis radius @
 - MPGD disk Z=1225mm, ~44mm
 - Z= 801, 33mm
 - Z= 335, 32.3mm
 - Z= -671, 32.3mm
 - Z= -1220, 46mm

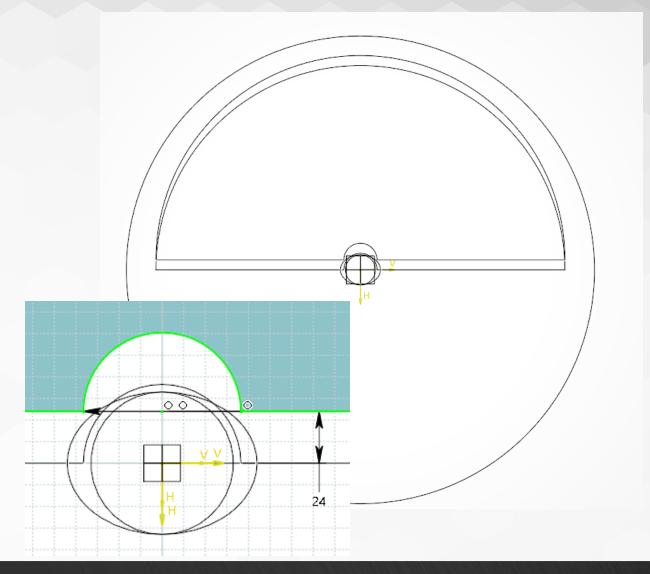






Hard Geometry Check

- Can Si disk move up enough to clear beampipe at exit from SVT space?
 - Ignore "soft" services for now
 - Move disk up into services gap as it moves outward in Z
- Needs to move up ~24mm+
 - Current disk frame-to-"PST" gap only
 10mm smaller frame? Larger PST?
- Additional disk overlap to consider







Notes 7 May 2024

- Si disk removal
 - Not impossible (yet)
 - Consider a few mm extra for disk overlap
 - How will services be handled?
 - How can precision be guaranteed on reinstallation?
- Thermal studies
 - 2d shell representation, of representative strip
 - As few unique components as possible
 - Natural and forced convection coefficient fit well in validation experiment
 - Consider what adjustments scaling up might require