The upper image in the figure shows the 4 locations of the rollers on the rail, the lower image is just a quarter of the detector. The Pixel subsystem intends to support near the same plane as the barrel interlinks. The PST is shown here as a separate structure for clarity. The PST in the barrel region is the first shell for the Strip Barrel staves. In the forward region of the endcap, it does not interface at all to the endcap radially. The Bulkhead moves with the endcap due to many service penetrations which are designed to be flexible. The Bulkhead radially and axially connects to the OC and the PST. The Strip Endcap is solely supported by rails inside the Outer Cylinder.

The pixel subsystem has some uncertainty in layout. A layout with maximum active area was used to estimate the likely mass loads that the various support planes would be required to carry. In the figure below, $F_{PP0}$ is carried by the barrel interlinks, where $F_{EndPlate}$ and $F_{PP1}$ are carried by the structural bulkhead. $F_{EndPlate}$ gets transmitted to the SB via the PST extension. All loads in are in kg force and sum...