

FGT / HFT Integration Issues

$$\int_E^W f(g(t)) \cdot h(f(t)) \cdot i \cdot ds$$

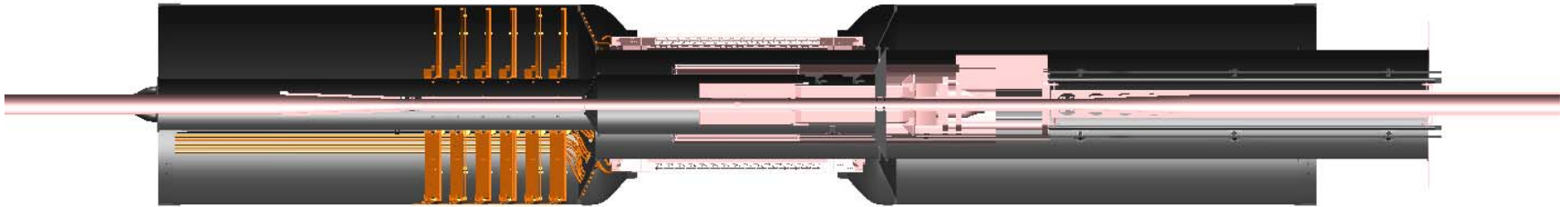
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10 March 2010

Outline

- FGT overview and accessibility
- IDS mounting to the TPC
- SSD Services
- E-field shroud
- Beam pipe support

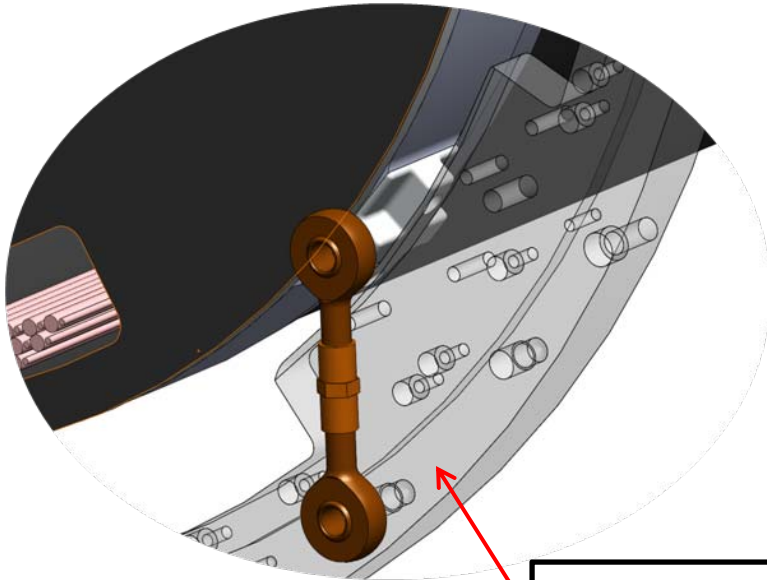
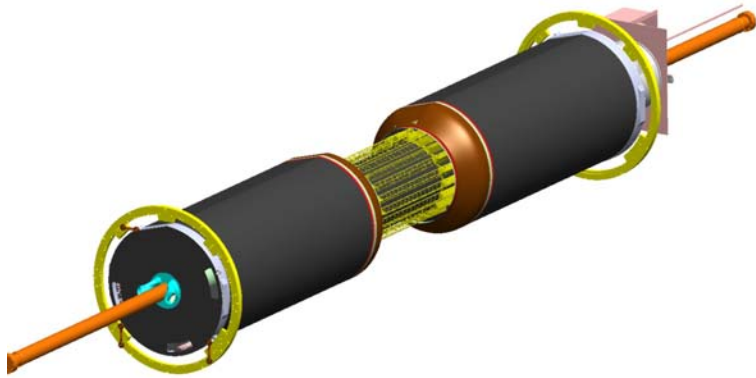
FGT Overview



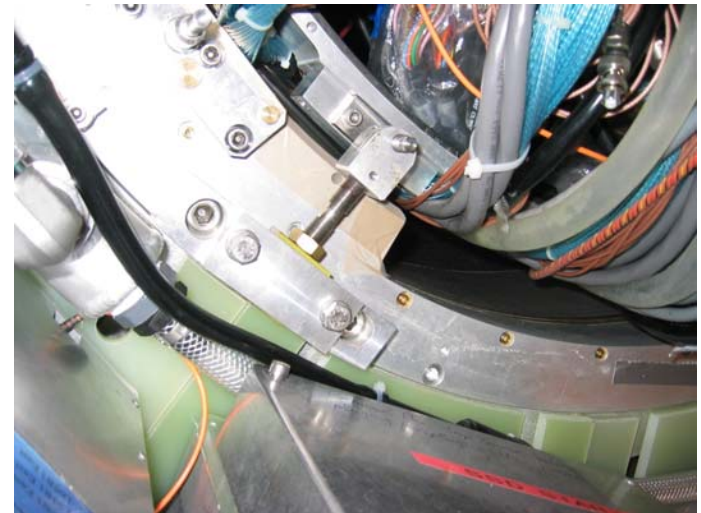
- FGT consists of 6 disks that live in the WSC
 - Nearest disk at ~680 mm from IP
 - This drives the shape of the WSC / ESC
- All services and cooling through west end only
- Will be installed in 2011 (Run 11)
- Designed so that each disk is independently serviceable while installed in STAR

Inner detector support

- IDS will be supported using quasi-kinematic 4-2-1 interface to TPC



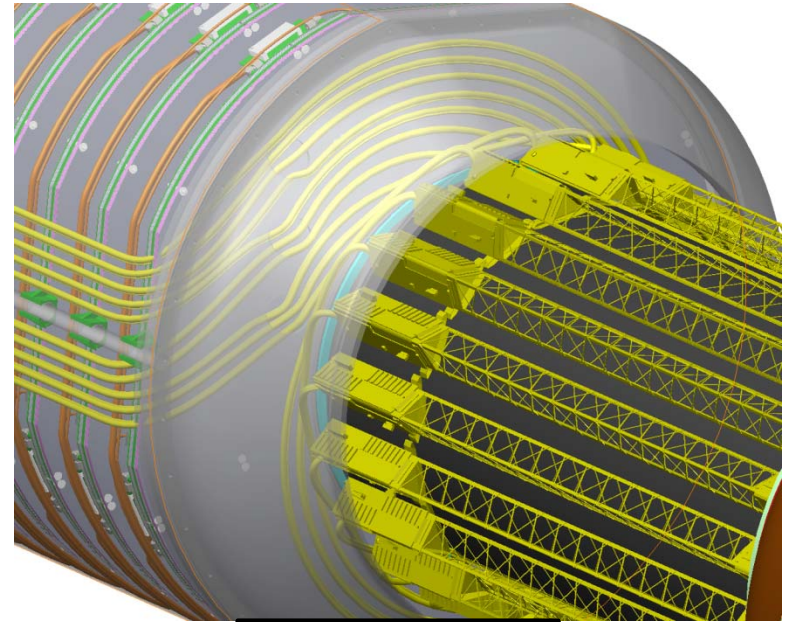
IFC End Ring
(Read: TPC)



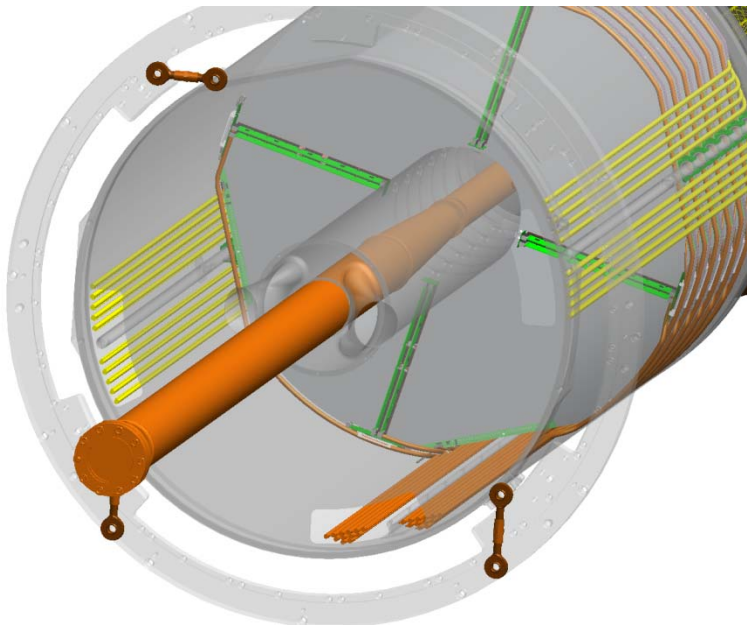
Existing SVT support

Services Routing

- SSD power and signal cables run the length of the WSC in 2 of the 3 gaps around FGT
 - These must be installed prior to run 11 while we have easy access to the WSC
- West end of cables will likely connect to a patch panel located on the TPC



East end of WSC



West end of WSC

