

SP Booster Fast Wire Scanner  
Mechanical design and machine integration updates

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# Integration in the PS Booster

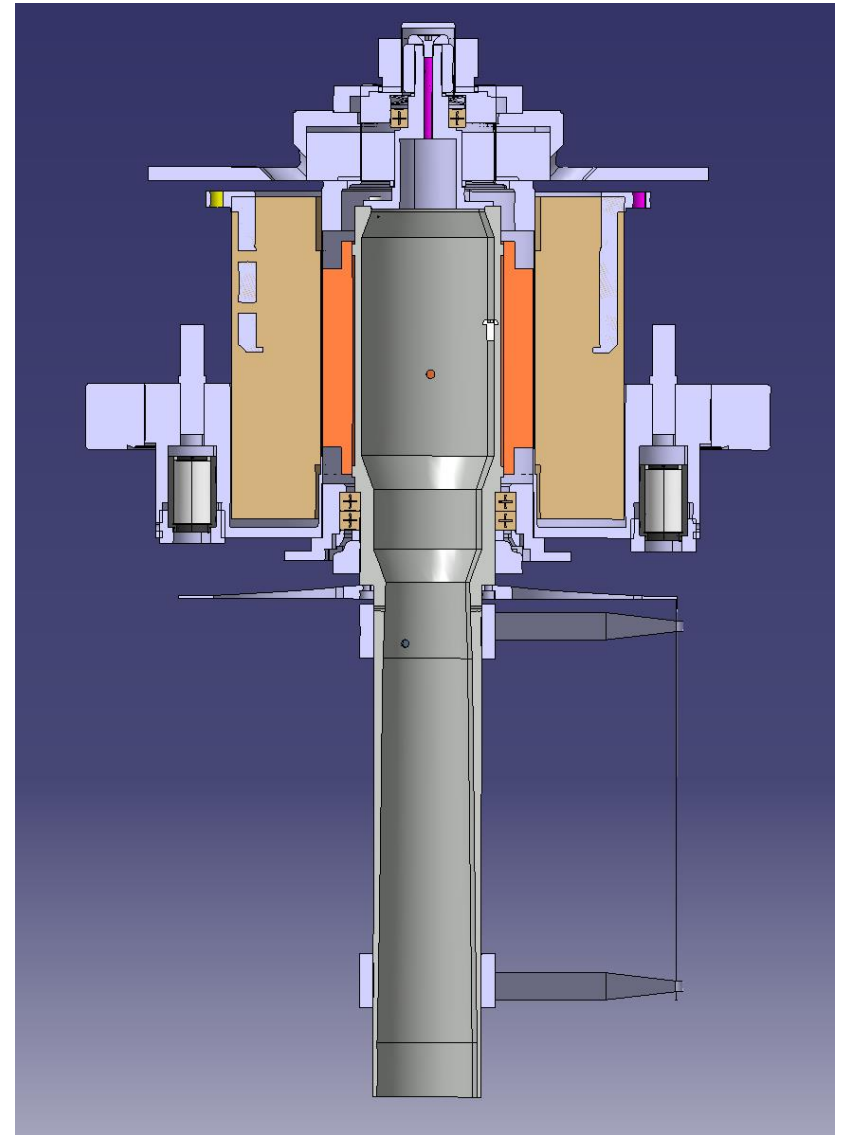
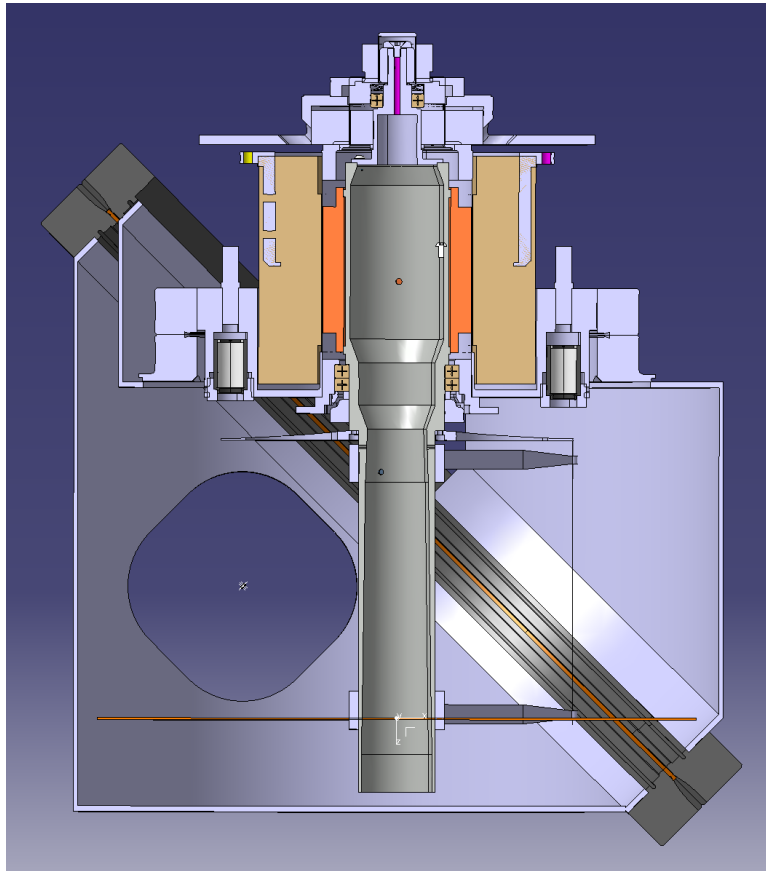
Simultaneous H and V scans → two sections needed

Sections available:

- **4L1**
  - 900 [mm] of beam pipe available
  - ring 3 to be shared with SEM grid (maybe DN100)
- **11L1**
  - still shifting the orbit corrector on the left of the multipole magnet

Relaxed space constraints, allowing to fit the SPS shaft into the booster → Same system for every machine (except for the forks).

# Mechanical design of the Wire Scanner



# Optical system

