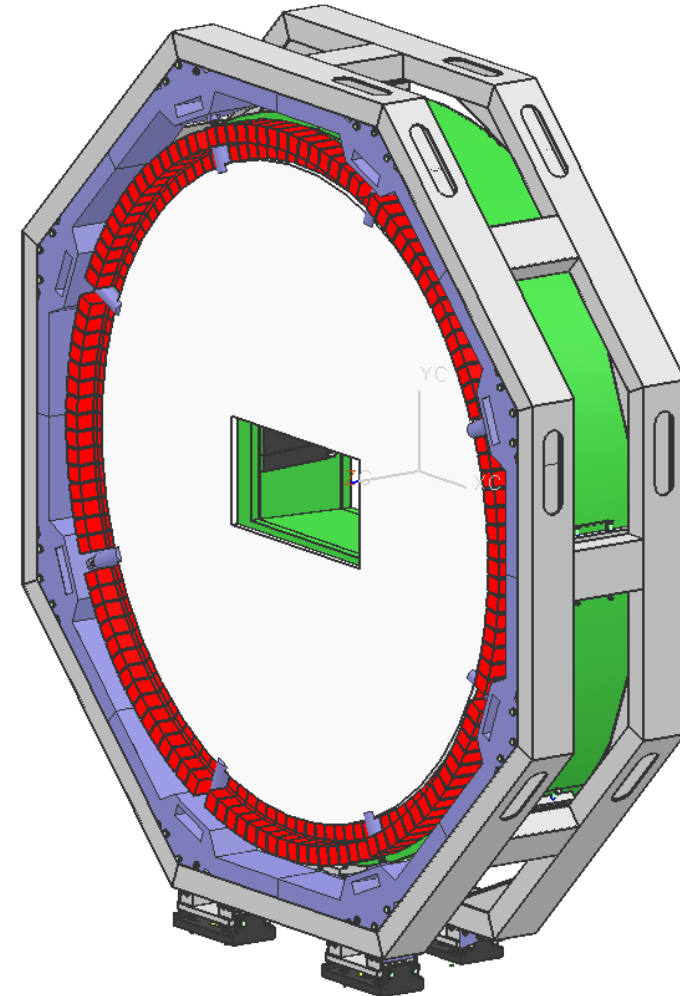


PANDA Fw Endcap EMC: DiscDIRC and insertion

*Henk Smit, Riemer Bergsma,
Michel Lindemulder (mech. engineering),
Annelie Kluttig (research engineer),
Herbert Löhner
KVI Groningen*



adaptation for elliptic hole

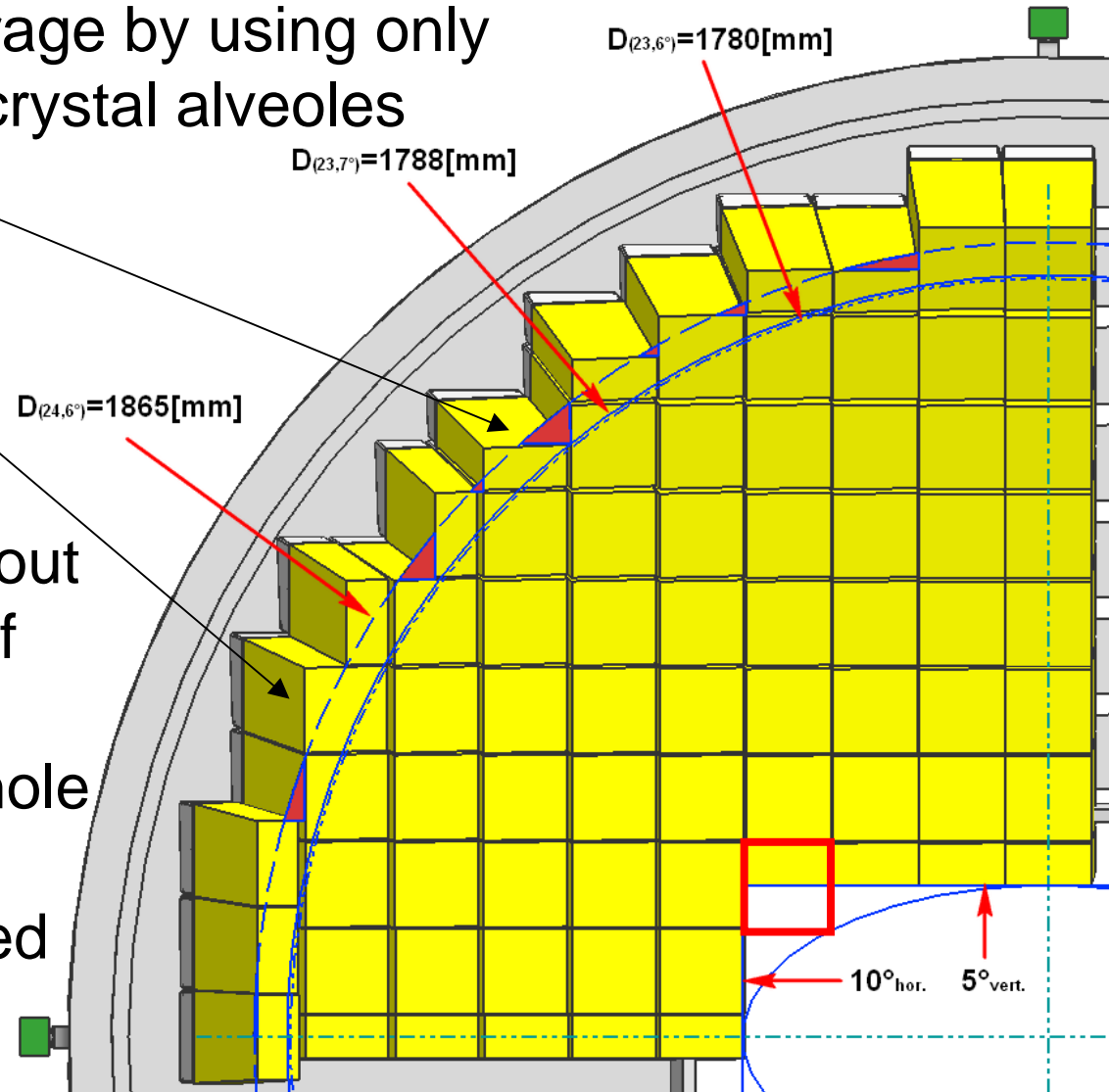
integration of Disc DIRC
space for cables

inserting endcap into solenoid

rearrangement of alveole positions

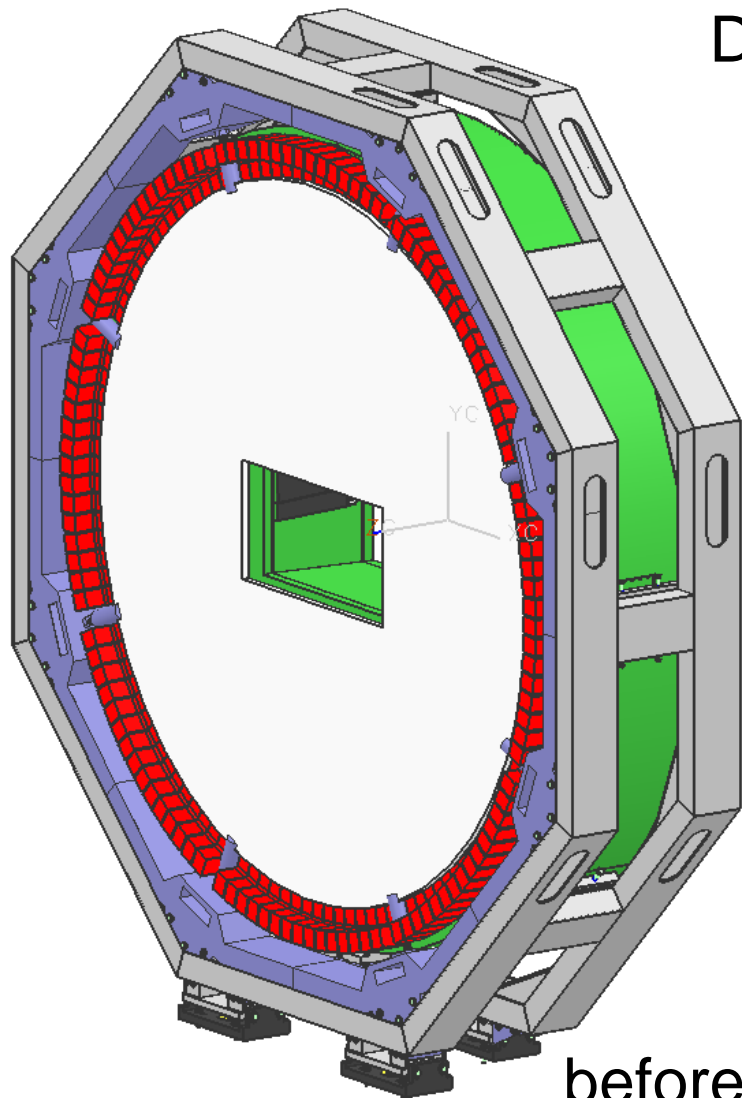
optimize coverage by using only full or half 16-crystal alveoles

achievable without changing size of mounting plate: new mounting hole positions are being determined

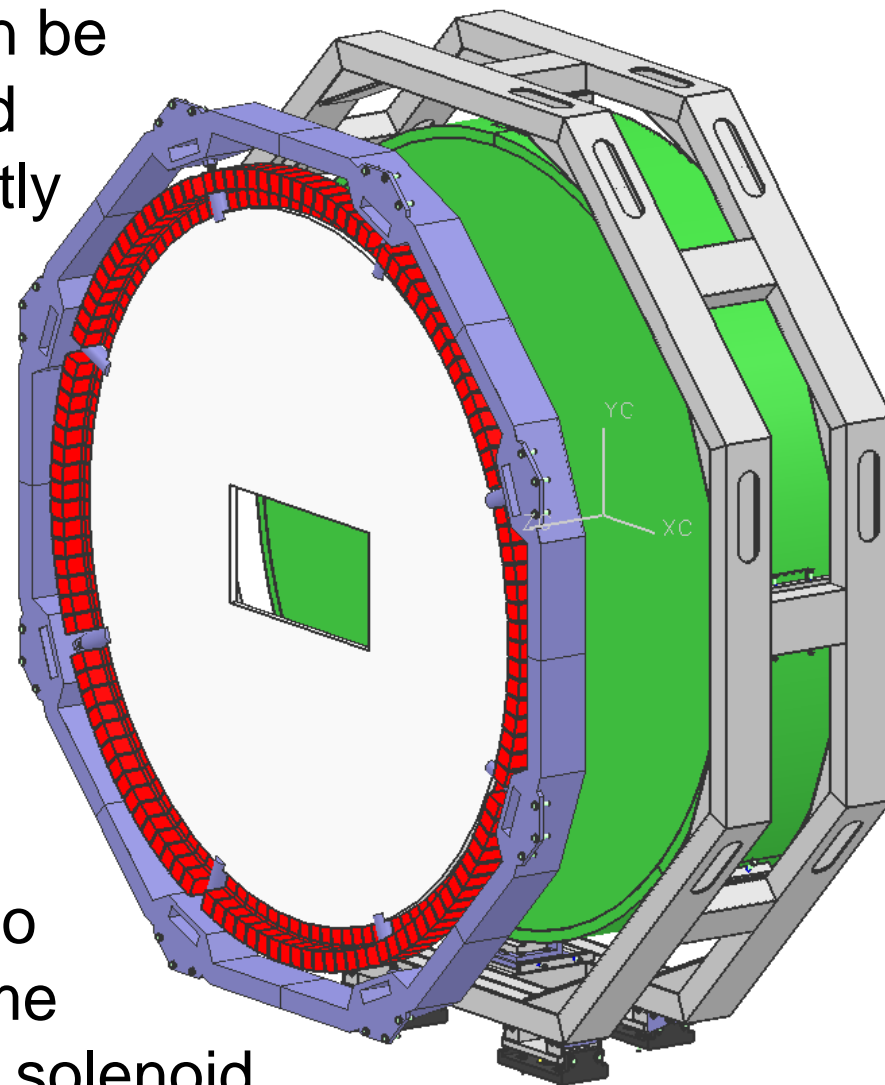


elliptic hole:
half alveole
extra

integration of DiscDIRC

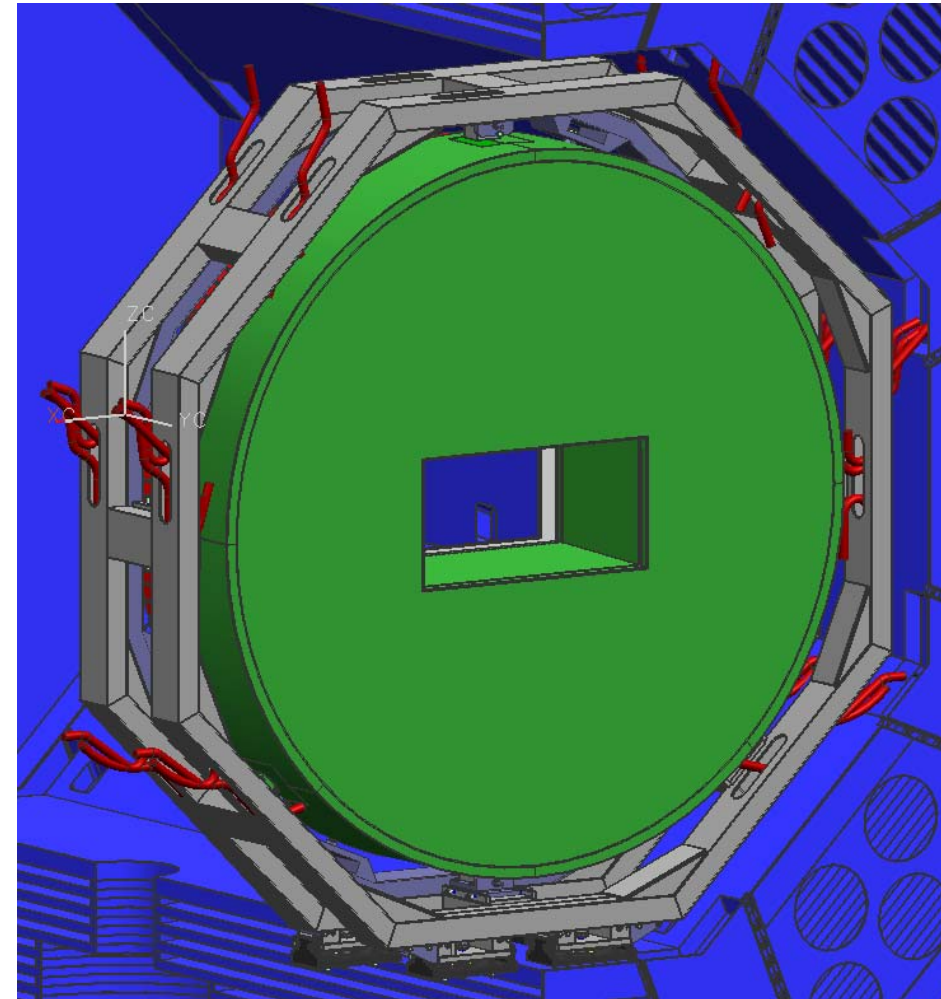
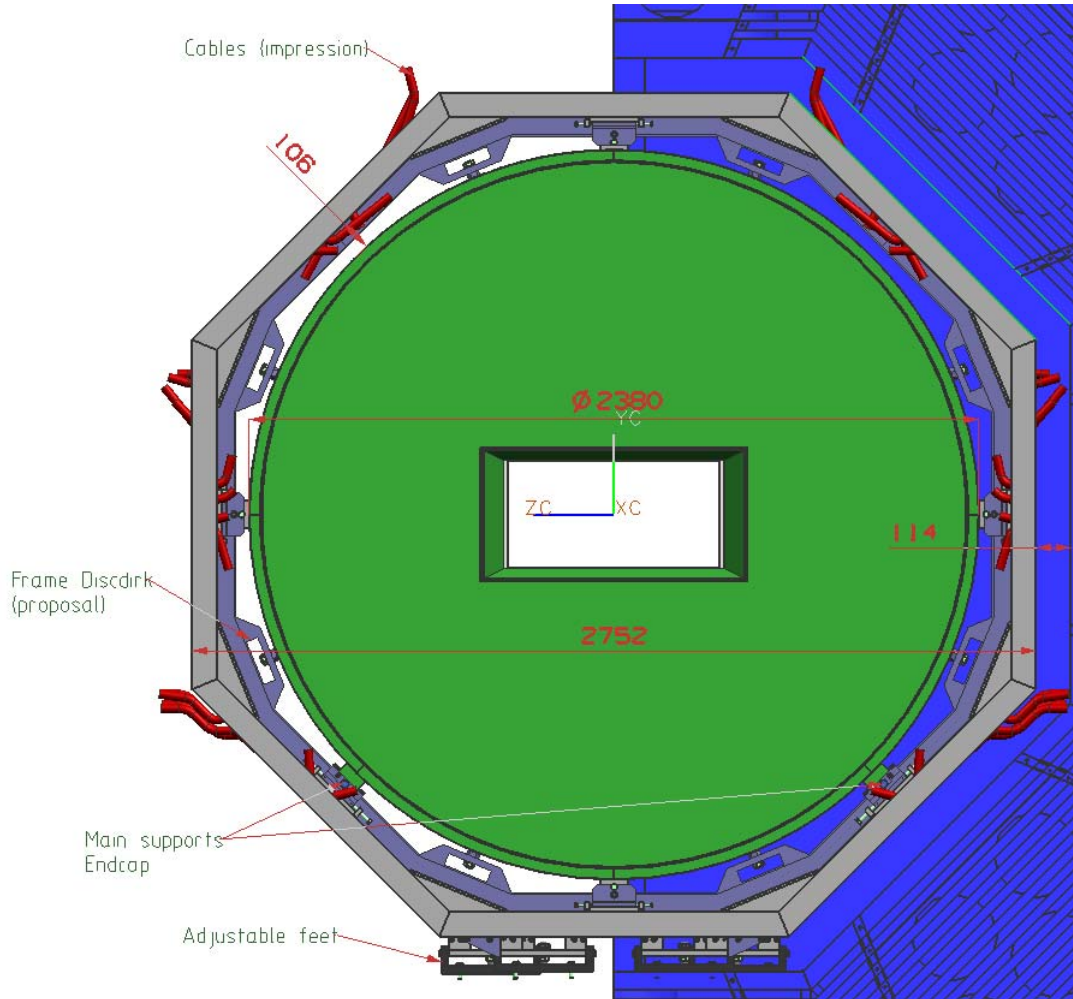


DiscDIRC can be assembled independently



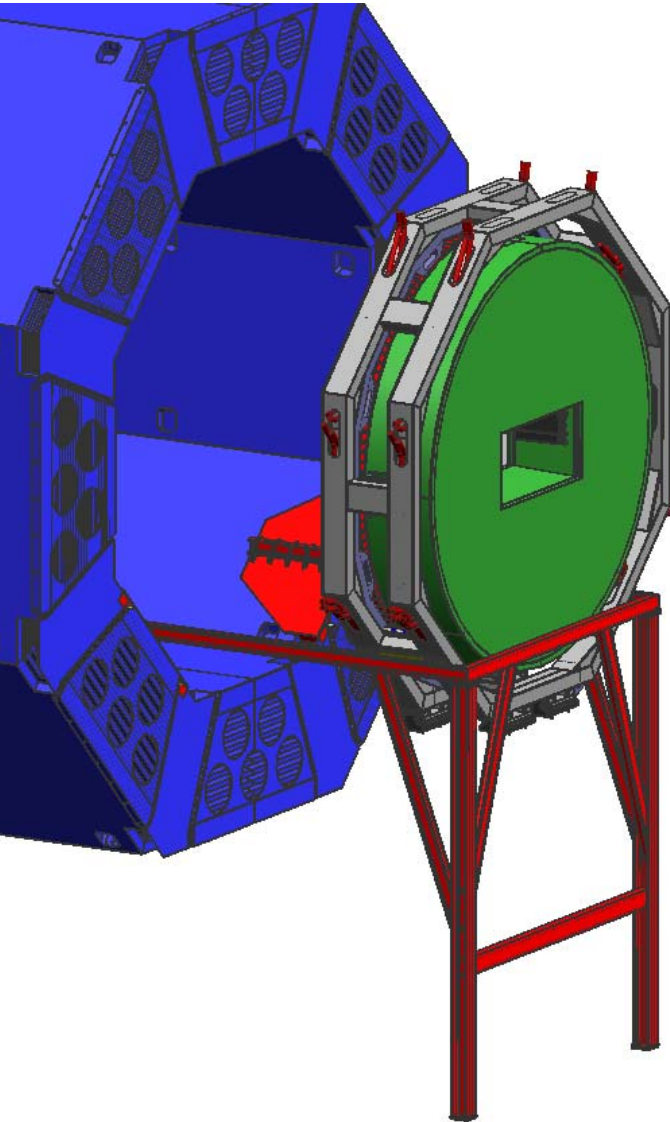
and inserted into endcap frame before moving into solenoid

cable guidance



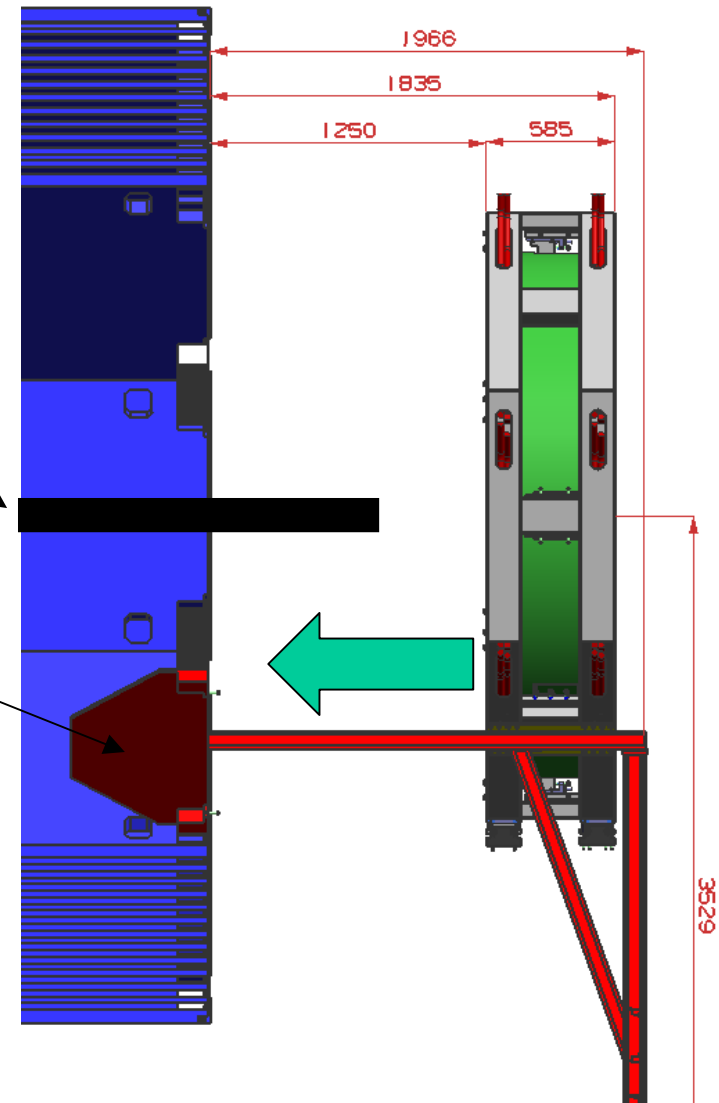
space for cables in hollow frame structure

insertion into solenoid by temporary rail system

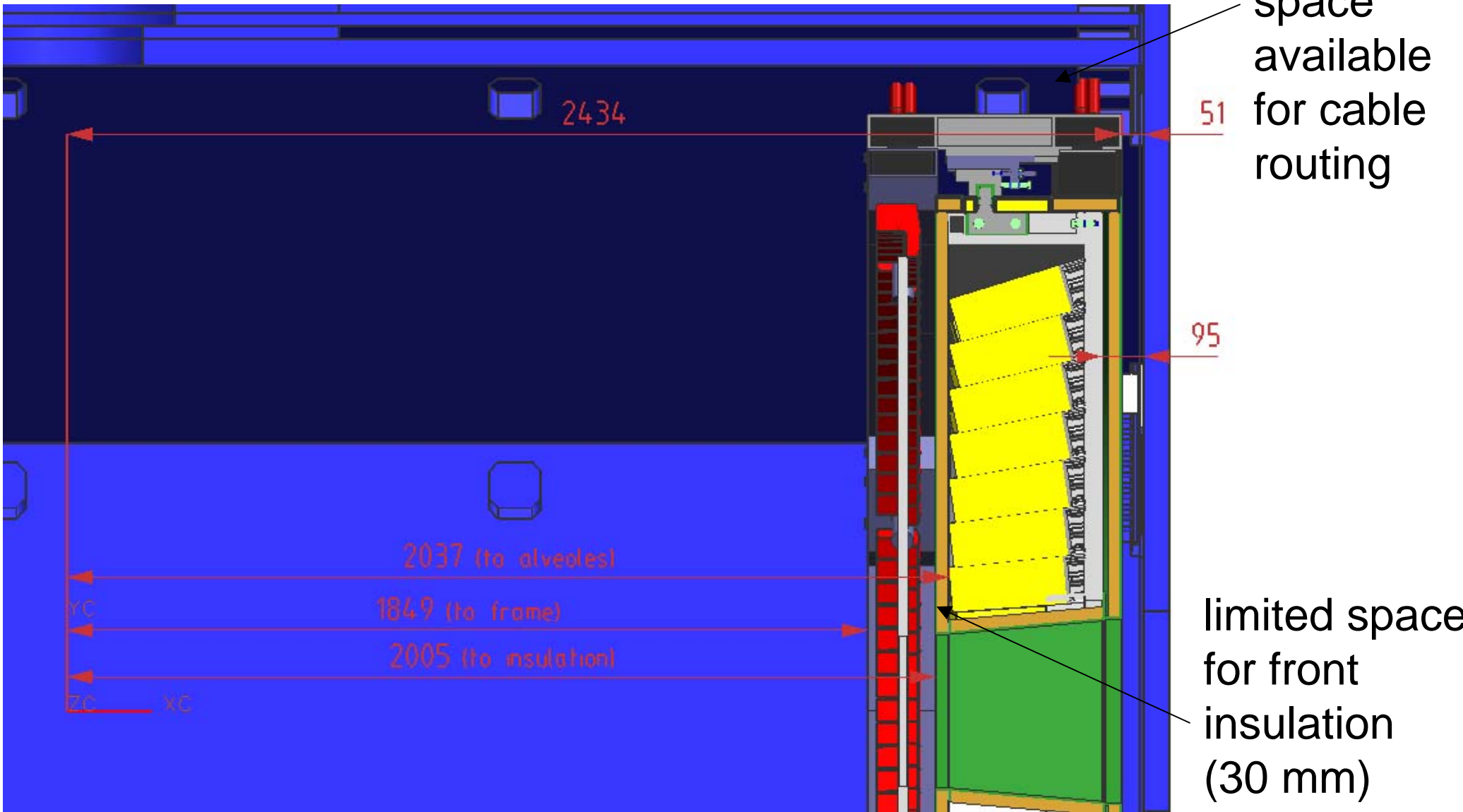


account for
beampipe
extending
outside of
solenoid

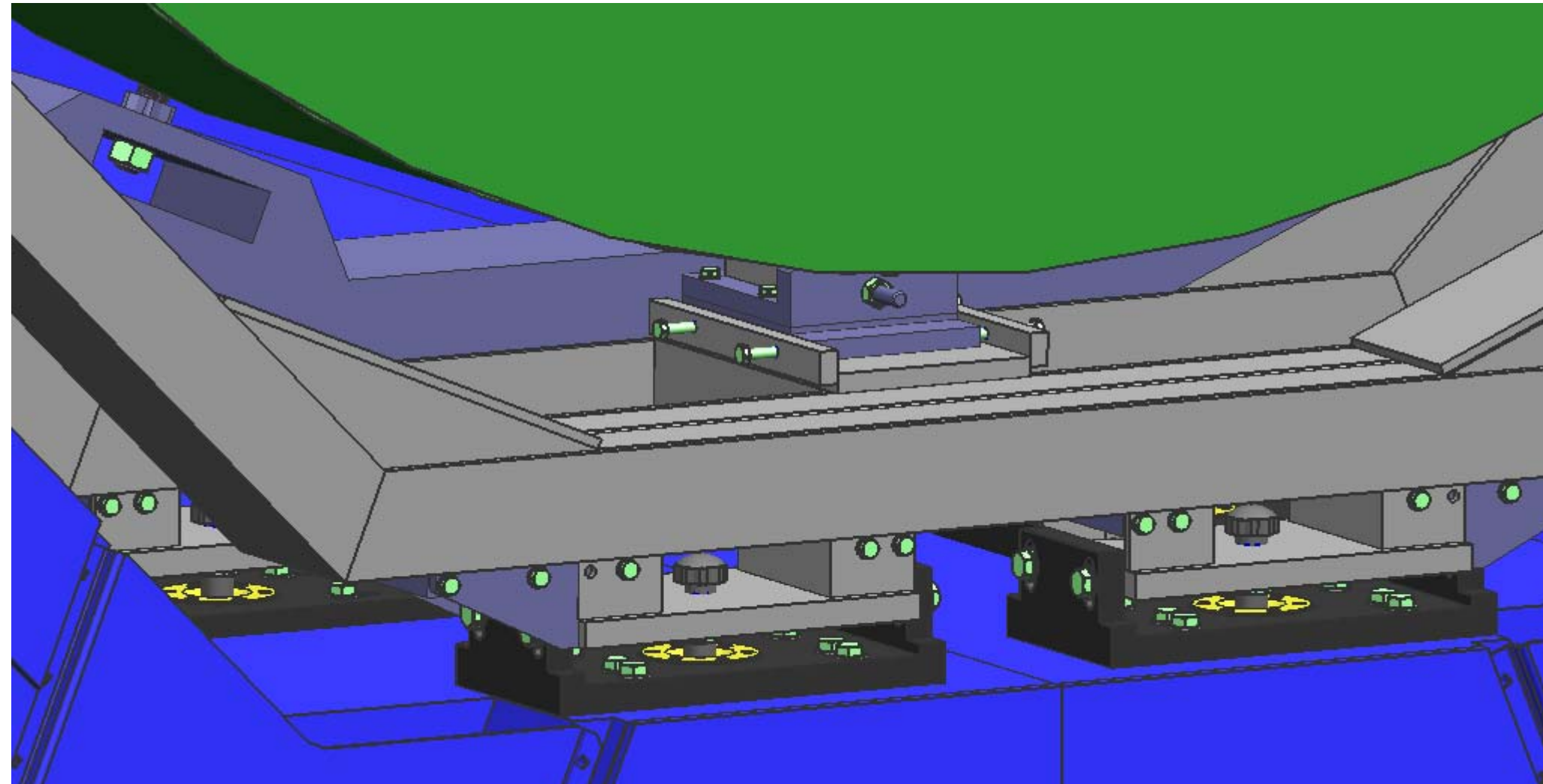
require temporary
mounting pads



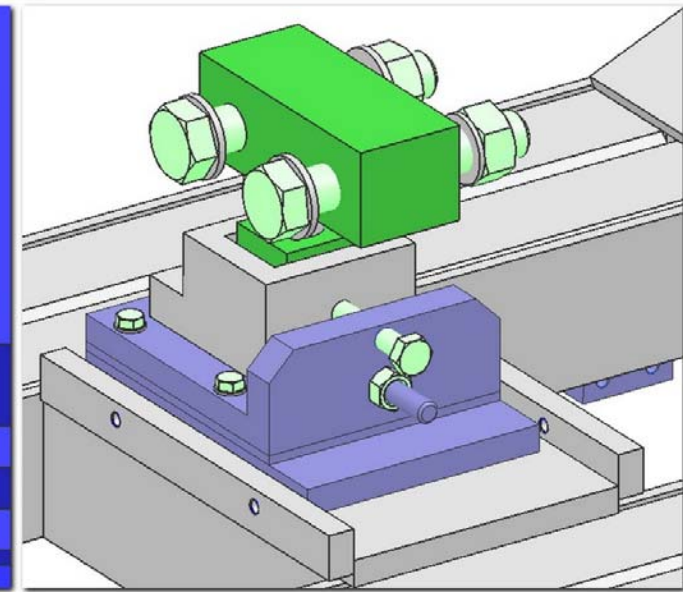
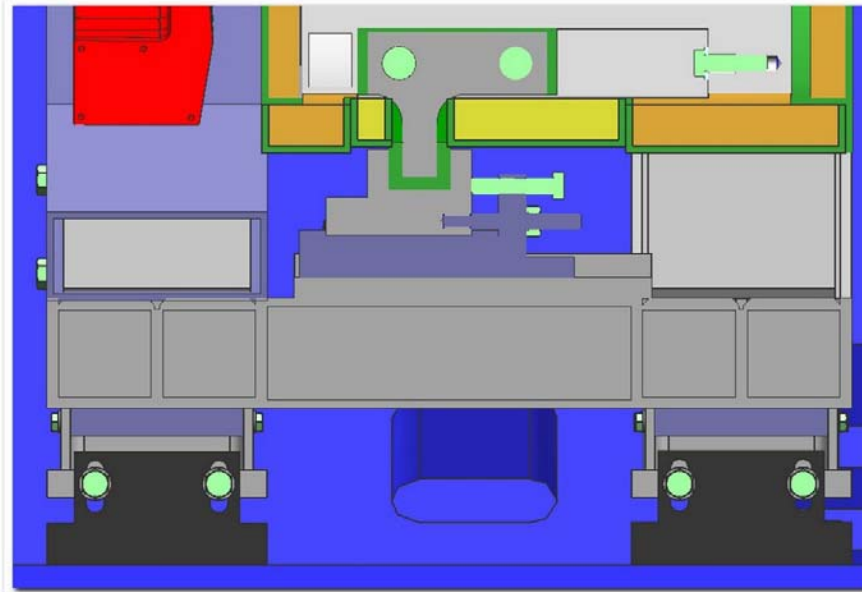
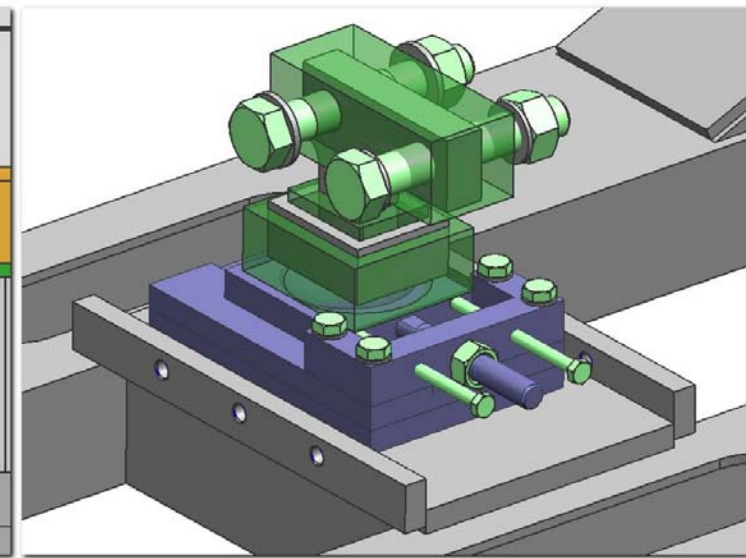
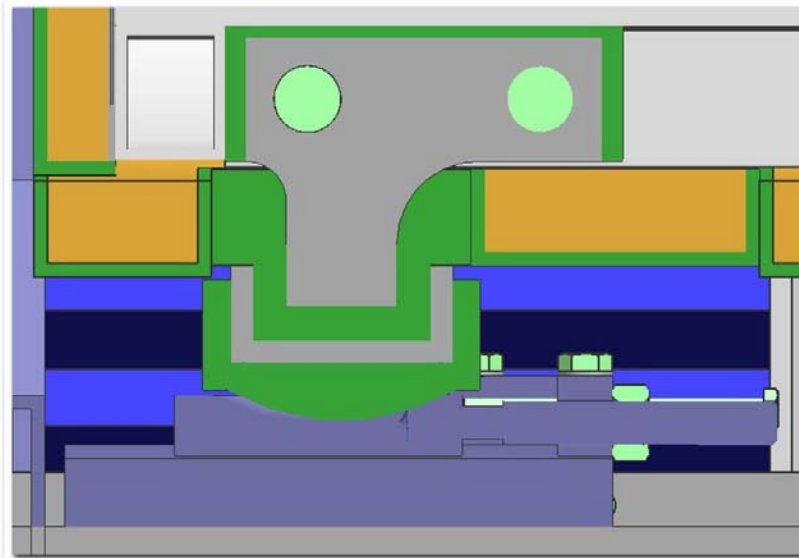
final assembly



details of frame support in solenoid



details of support systems



summary

- 16-crystal alveoles rearranged to accommodate elliptic hole with full/half alveole-coverage
- DiscDIRC frame defined and detailed:
will be inserted after
independent EMC / DiscDIRC assembly
- insertion of FwEndcap EMC (+DiscDIRC)
worked out in some detail: requires
2m space in front of solenoid,
a crane,
a **frame attached temporarily** to the solenoid

