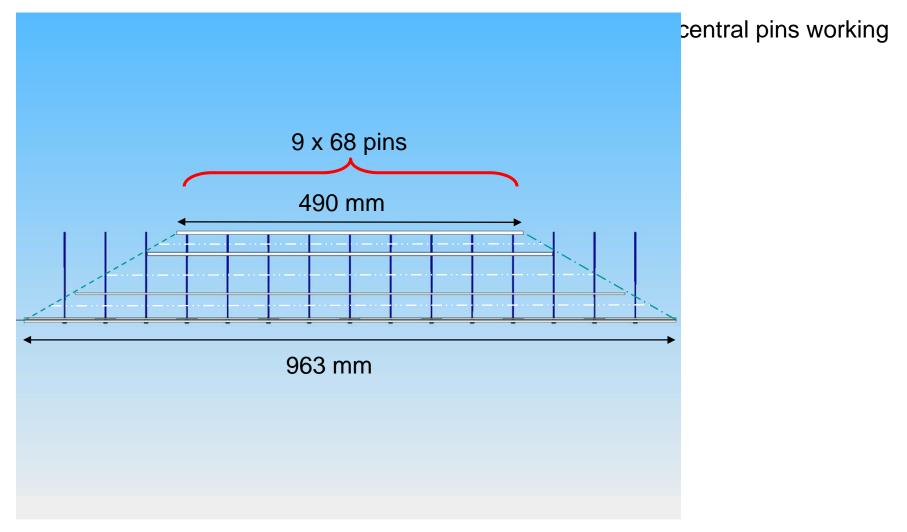
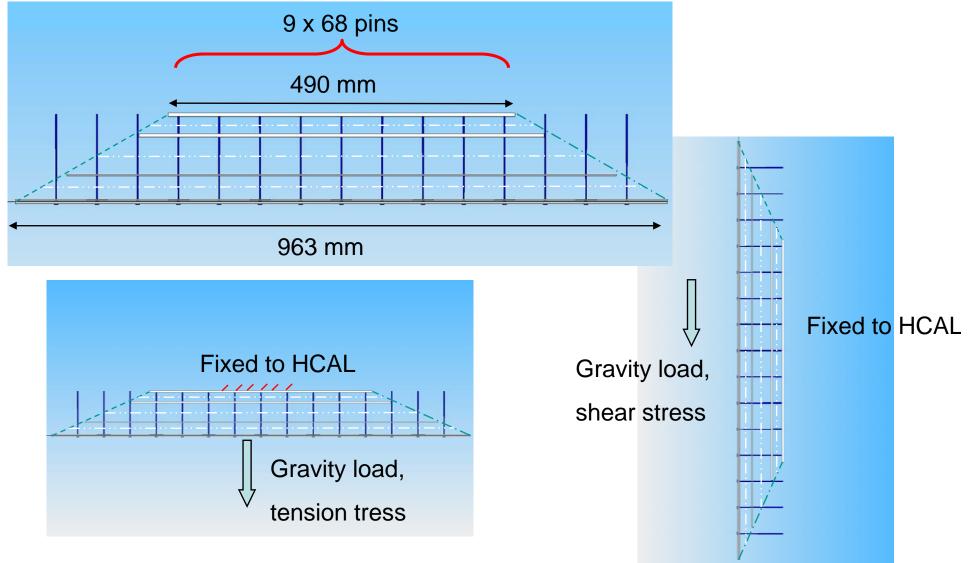


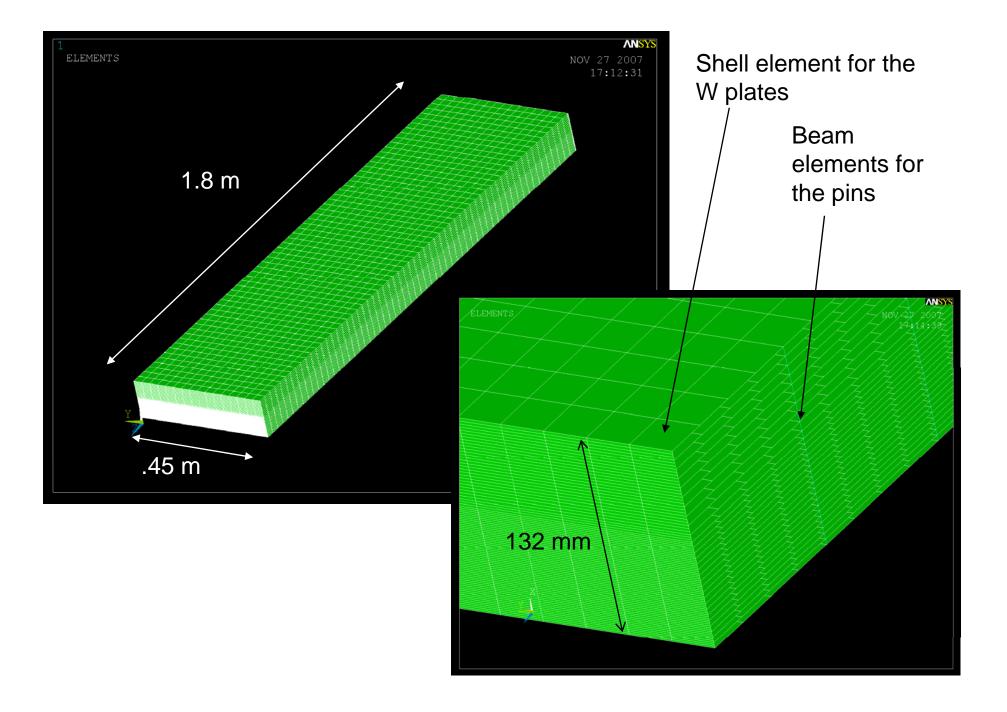
Total weight of one wedge module ~ 5 tons

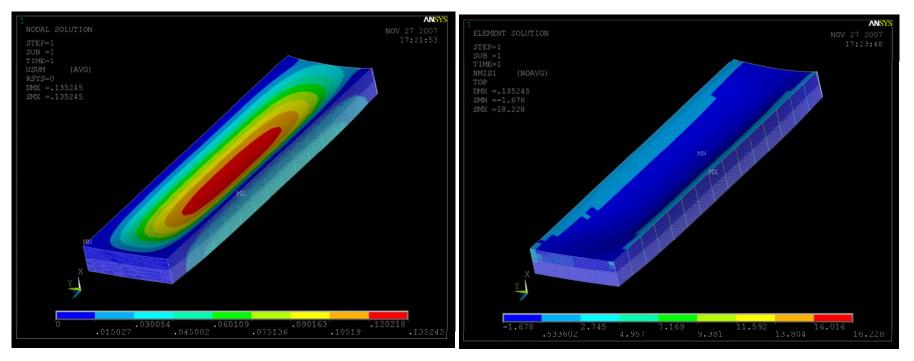


Load condition changes acording to the orientation of the wedge module in the barrel.

A detailed FEM model to be developed for the deformations and the stress between the W plates

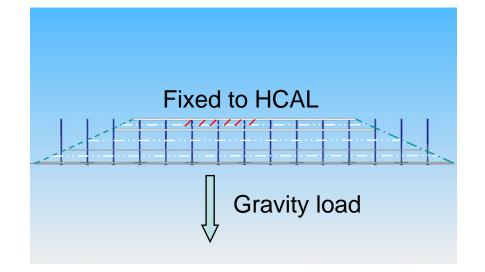


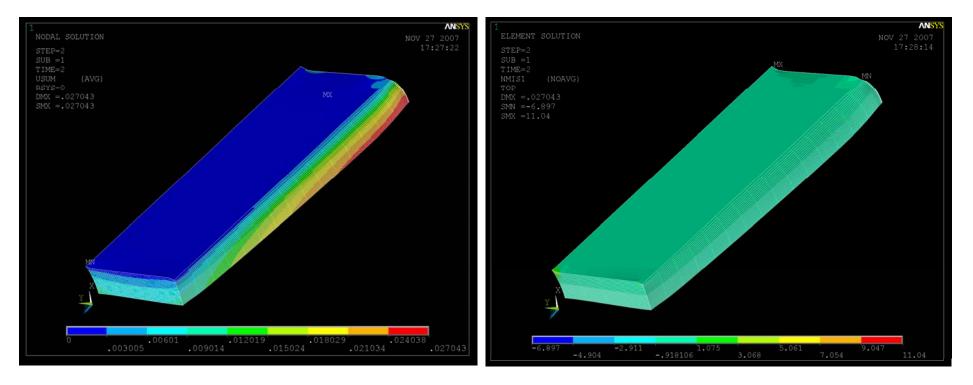




Max deformation, 0.135mm

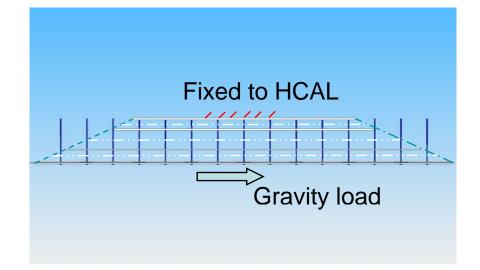
Max stress on pins, 180 MPa





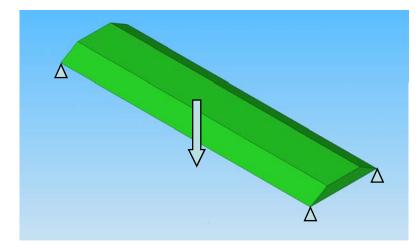
Max deformation, 0.027mm

Max stress on pins, 110 MPa

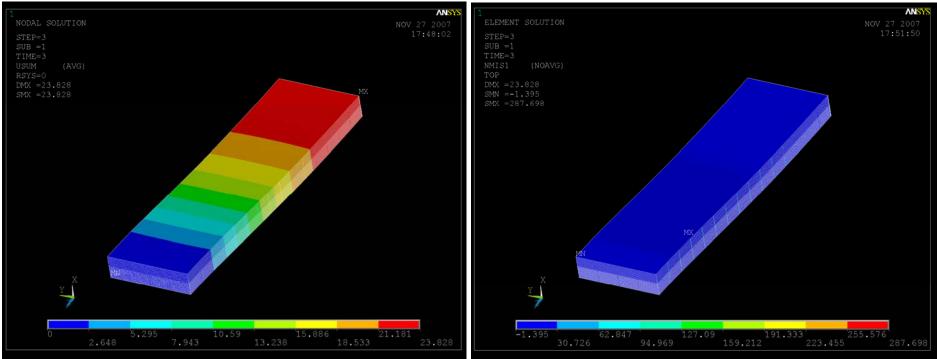


Considerations

- Deformations are small
- Max stress on pins, good safety factor with 2mm OD pins
- Tungsten plates experience low or negligible stress : it is a good in case of a joined plates assembly
- The pins concept show good performances



Long wedge supported from the ends

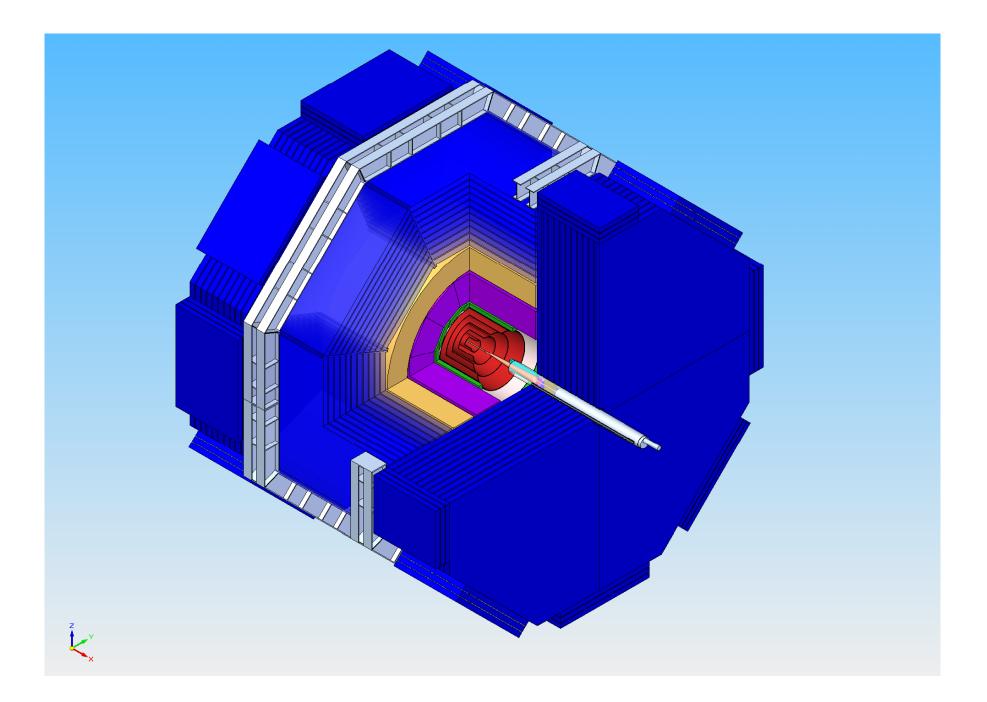


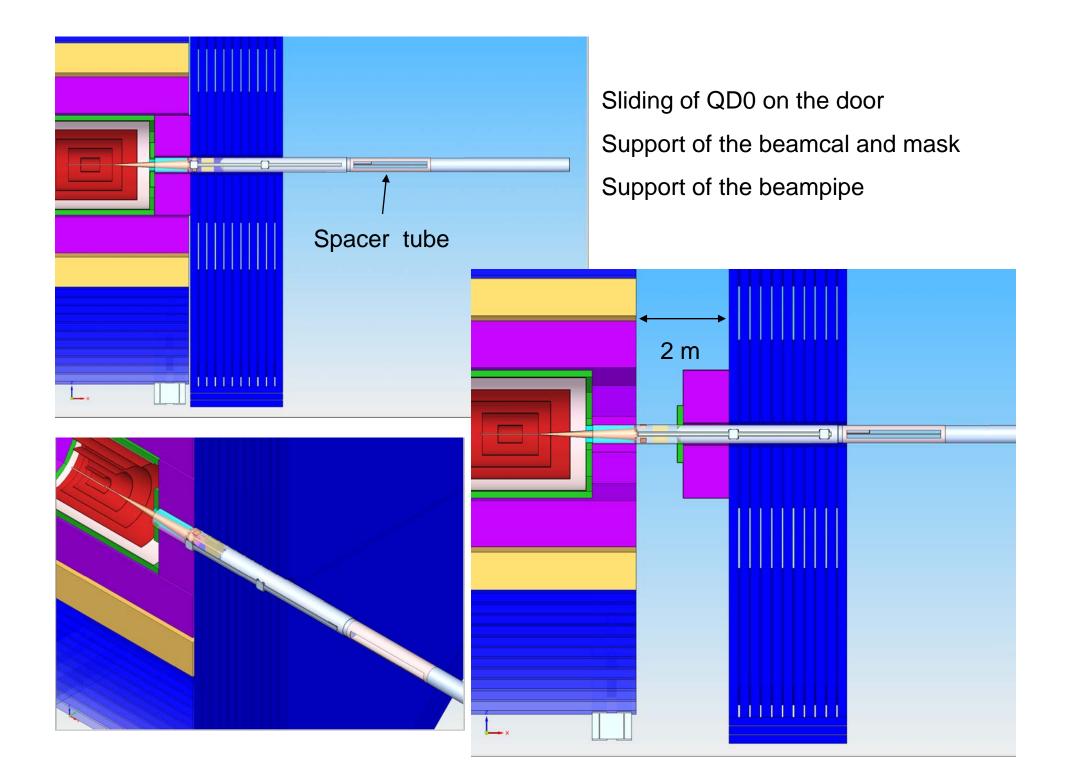
Deformations, 23mm

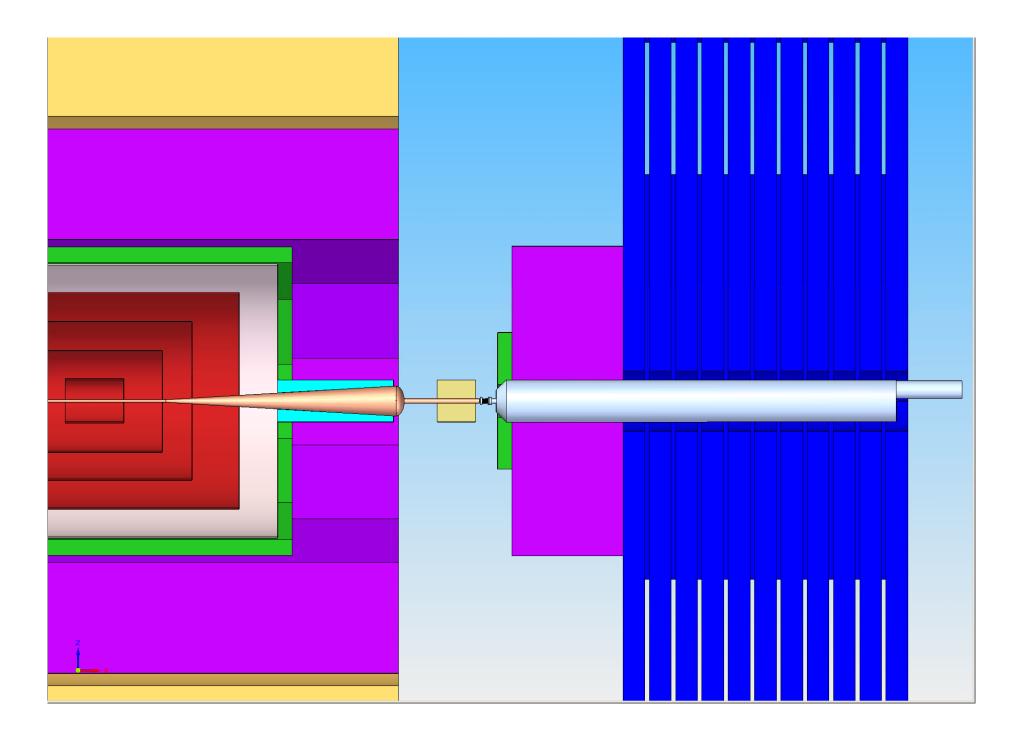
Max stress on pins, 2870 MPa

Considerations

- Deformations and stresses are large
- The pins concept does not perform for this specific support configuration







Needs of specification of the chamber : valves, bellows, bakeout temp., pumping,

