Integration Meeting: Volume reservation for the transport table vehicle

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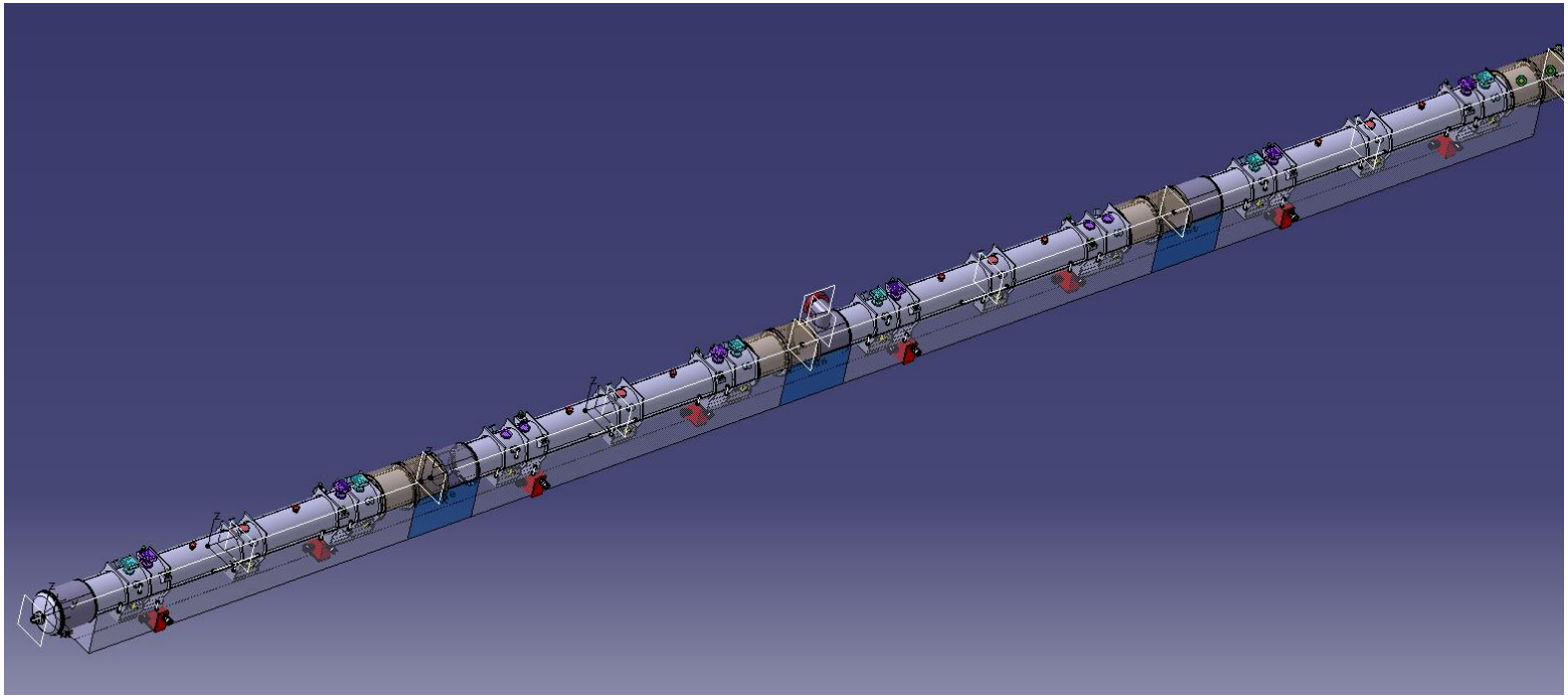
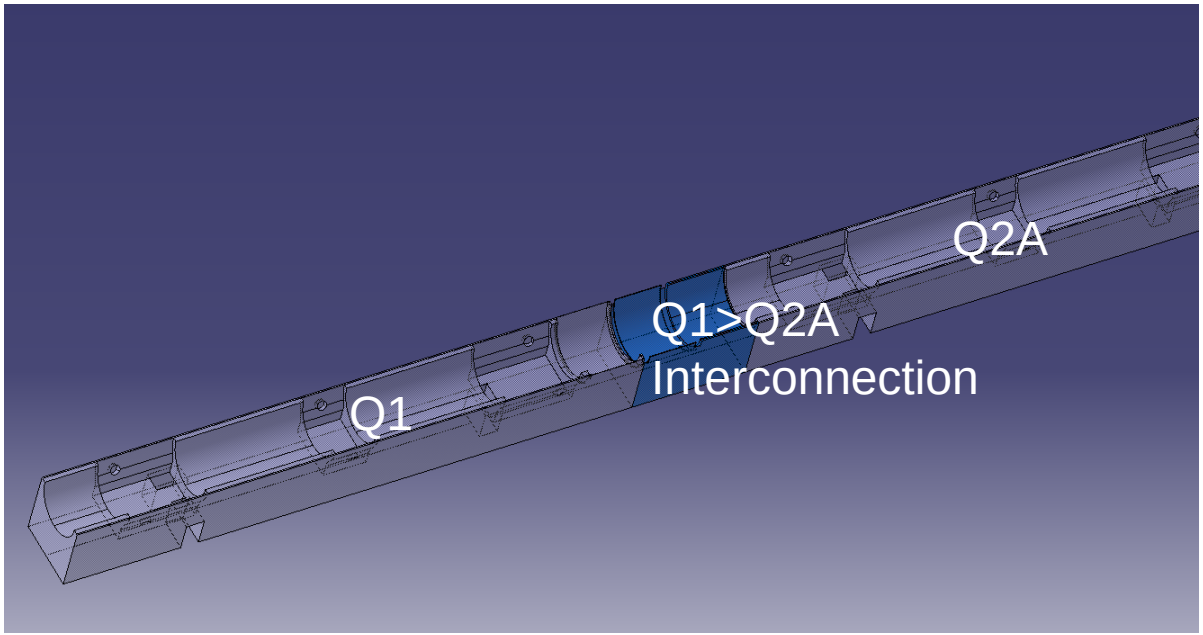
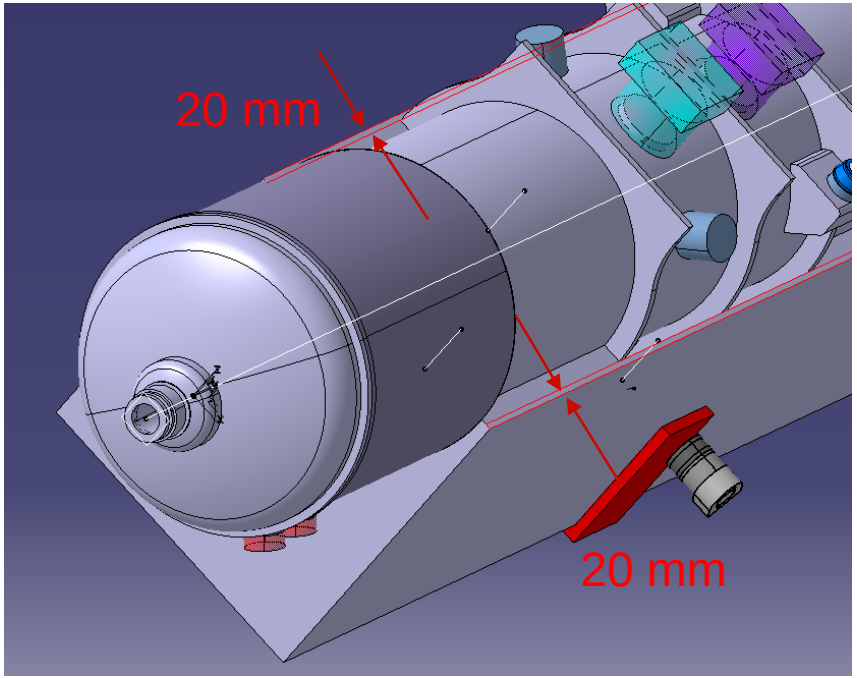
Space Below the Qs: Volume reservation



Design of the volume: Boolean subtraction from Point 1_right integration model / Point5_right integration model

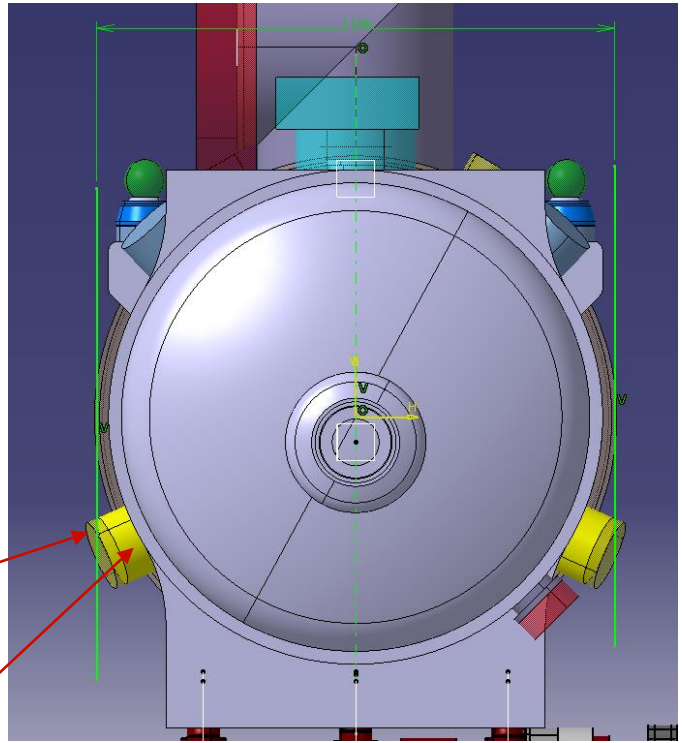


Design of the volume: 20 mm in addition to the larger diameter



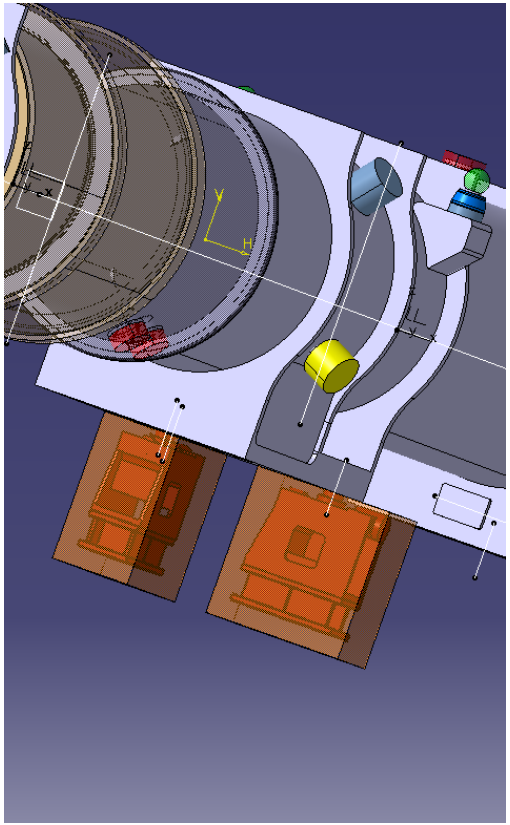
Design of the volume: FSIs

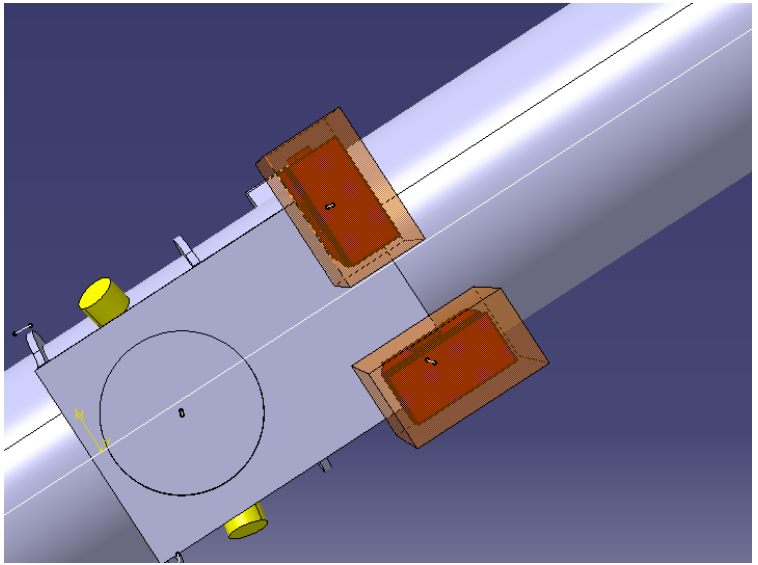
The design of the new FSIs has not been decided yet, but we receive confirmation of the fact that they will not protrude in the transport zone. Using a conservative approach, they have been considered as tangent to the transport zone boundaries (LHCHMUMG0006)



Design of the volume: jacks

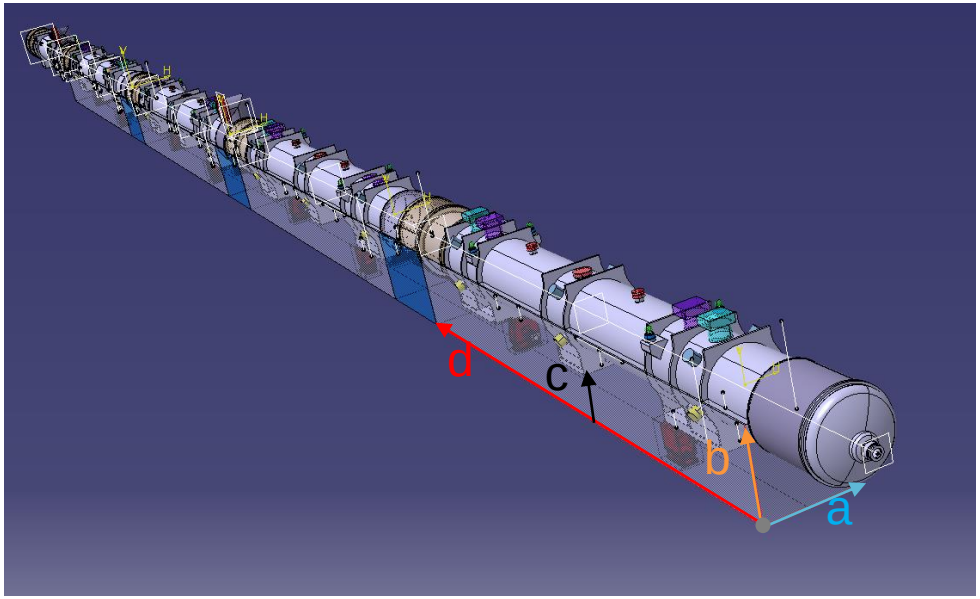
50 mm larger in all directions, to allow small changes





Volume below the magnets: main characteristics

- Width: 1096 mm (a)
- High:
  - Maximum: 1152 mm (b)
  - Minimum: 484 mm (c)
- Length
  - Below Q1: 9259 mm (d)
  - Below Q2A: 8944 mm
  - Below Q2B: 8944 mm
  - Below Q3: 9259 mm



Highlights

- No volume reservation for jacks 'motors
- No reservation volume for the longitudinal anchor
- On the ground, the attachment points to the anchor have to be completely flat, no fixing structures or bolts have to protrude out of the floor
- All of the Volume here presented have to be integrated in the Hi_Lumi Point 1 and Point 5 Integration model
- We have assumed that the magnets will be completely isostatic when standing on the jacks, during the installation phase (to be part of the specification of the jacks'design)
- We need to investigate the need of extending the rails in the nose of Point 1 and Point 5

Questions

- The bellow will be transported attached to which element?
  - What will be transported with the magnets during the installation phase? (all around)
  - Is it possible to have the complete integration model of both the left and the right side ?
    - What is missing in integration Point 5_right (ST0966906_01) and Point 1_right (ST0990128_01)?

Thank you very much for your attention