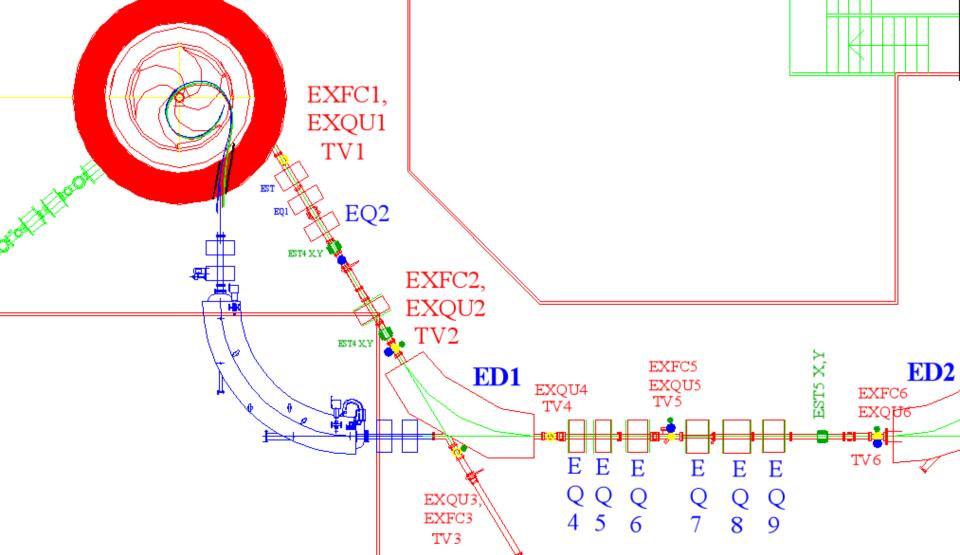
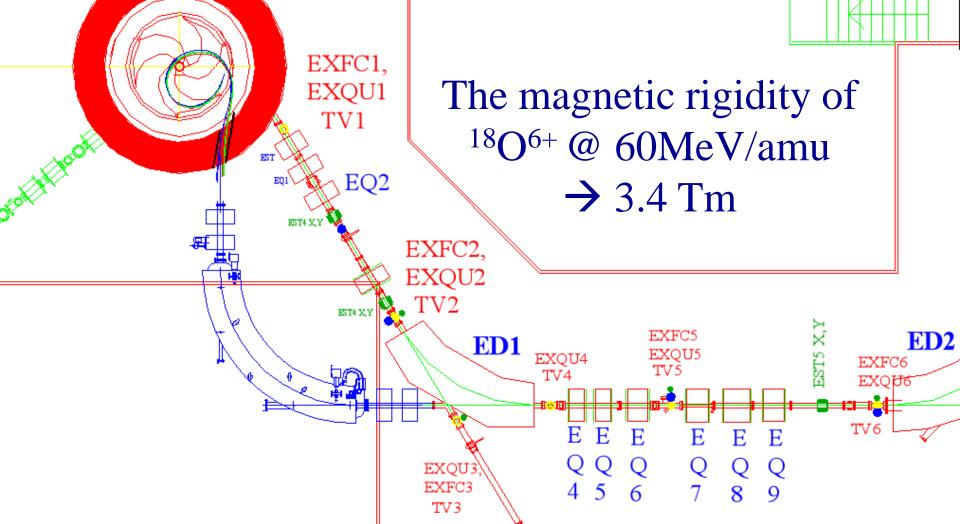
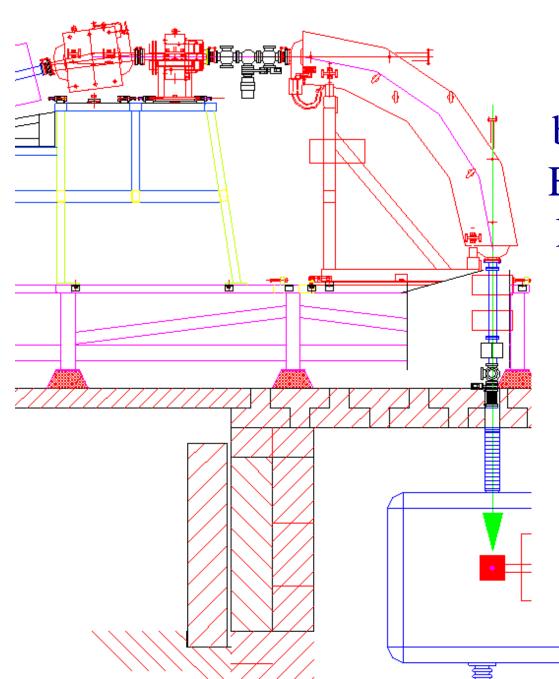


To deliver the new high power beam to the existing beam lines we need a 90° bending magnet and at least further 4 quads and dedicated diagnostic.

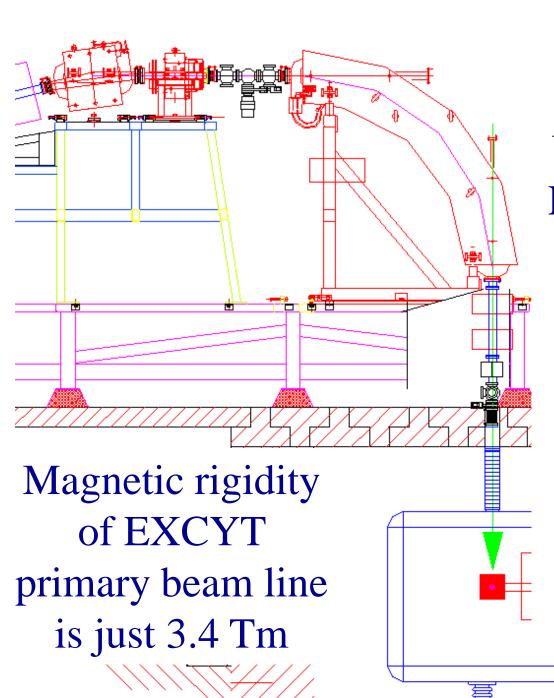


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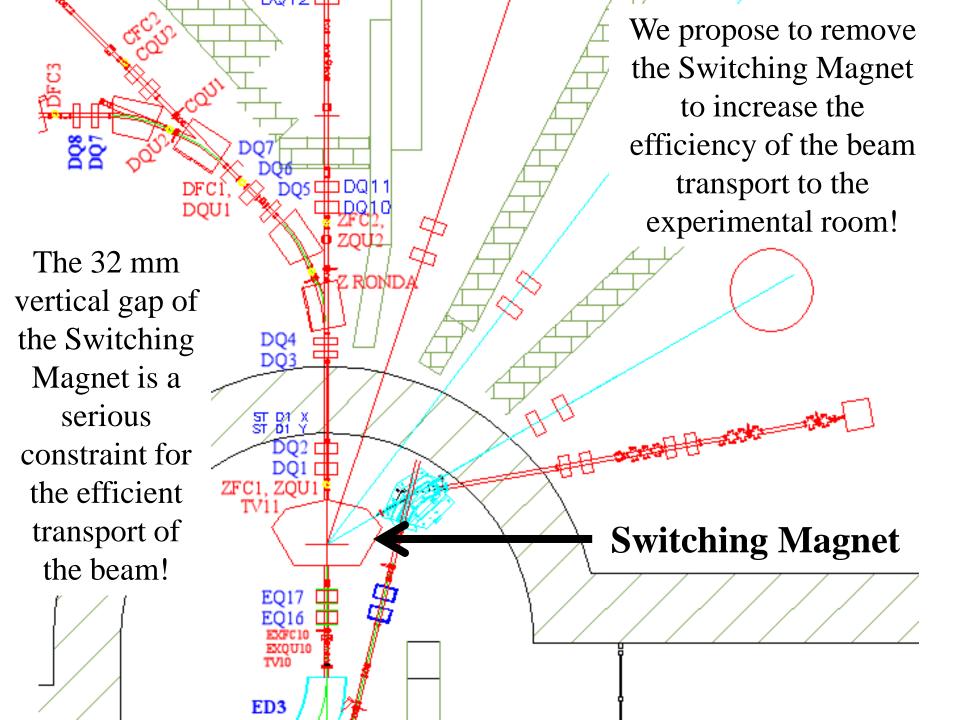


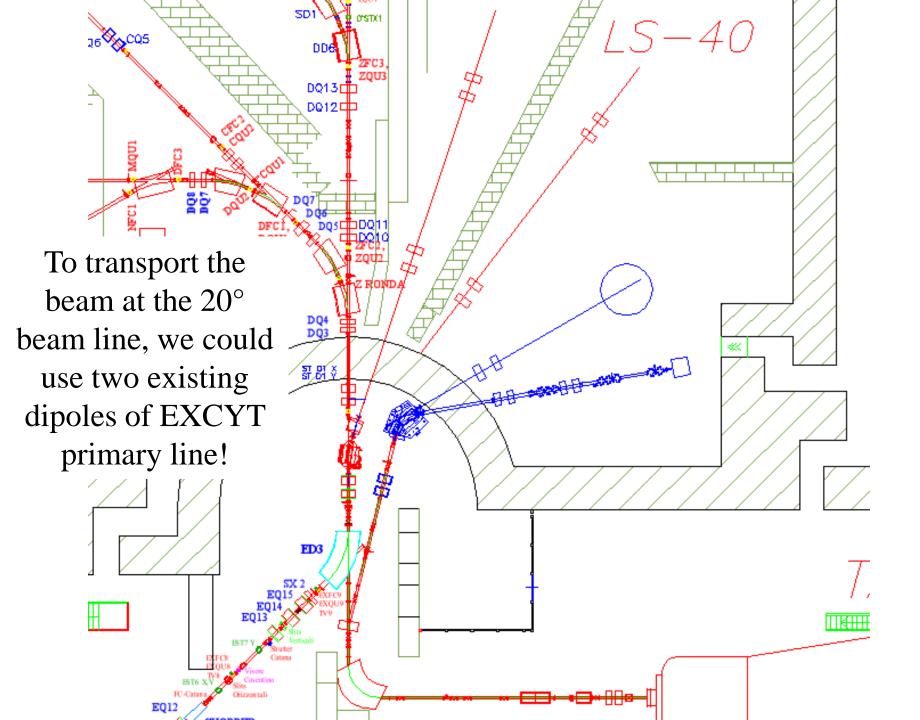


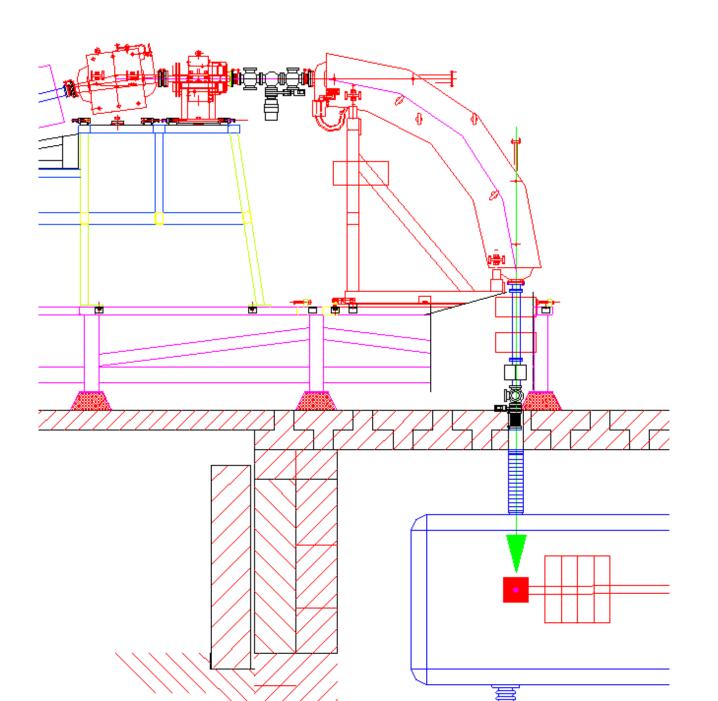
We are looking if the features of the 90° bending magnet of the **EXCYT** primary beam line match the request of the new extraction line! Vacuum chamber Free vertical gap 40 mm, radial width 90 mm, Pole width 200 mm



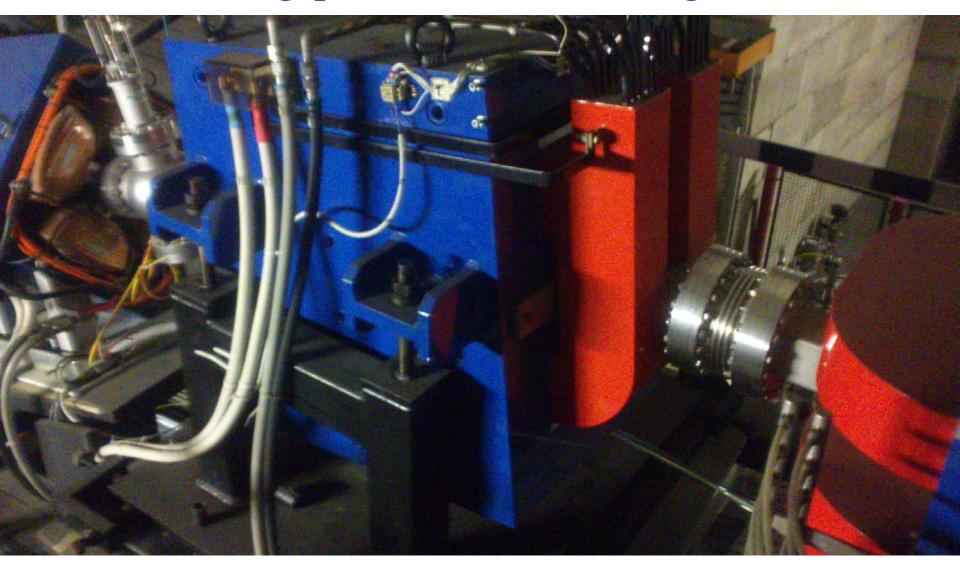
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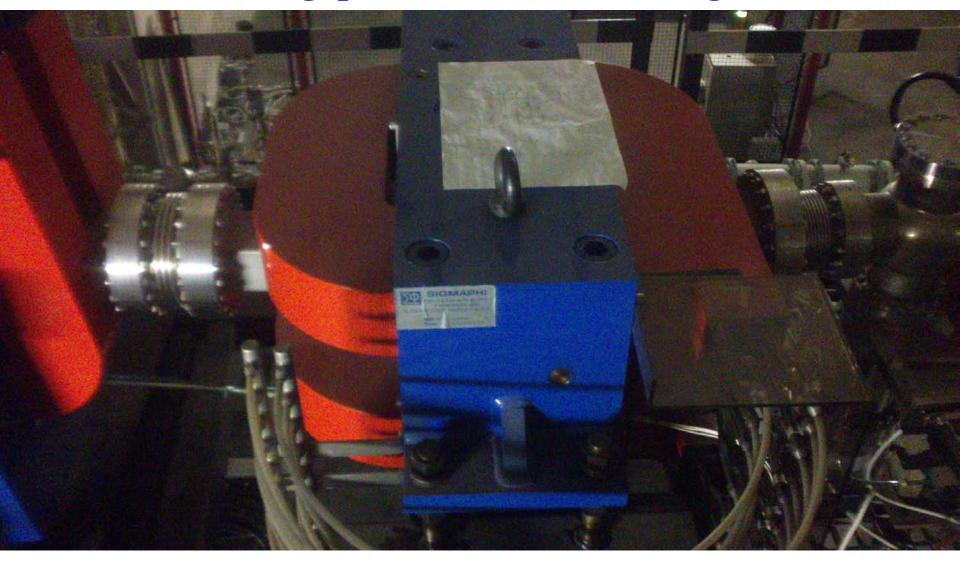


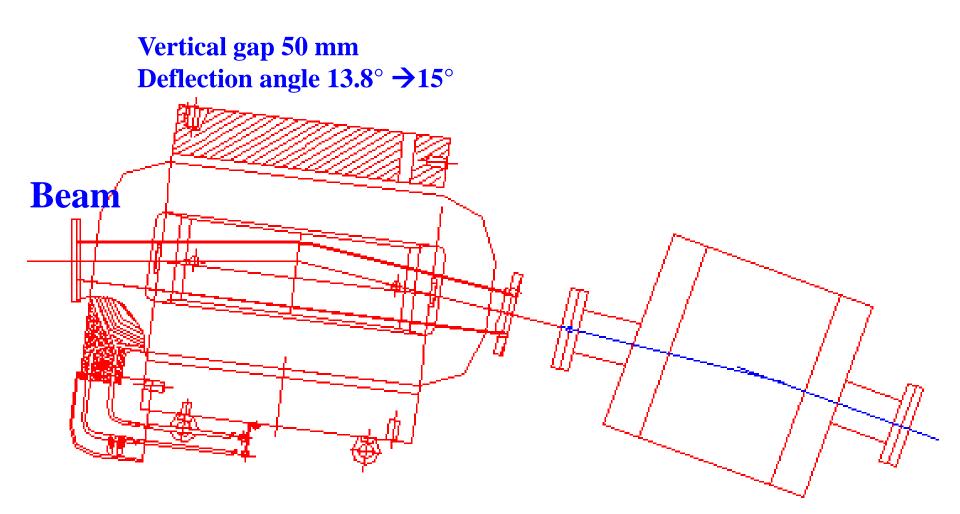


Bending magnet PD2 of EXCYT primary beam line: Vertical gap 50 mm, Deflection angle 13.8°



Bending magnet PD3 of EXCYT primary beam line: Vertical gap 70 mm, Deflection angle 5°





Vertical gap 70 mm Deflection angle 5°

Vertical gap 50 mm Deflection angle 13.8° →15°

Beam

we need change:

- The bending plane from vertical to horizontal plane and the support of the 13.8° magnet;
- Increase the bending angle of 1.2° for one of the two magnet;
 - Build a new vacuum chamber.

Vertical gap 70 mm Deflection angle 5°

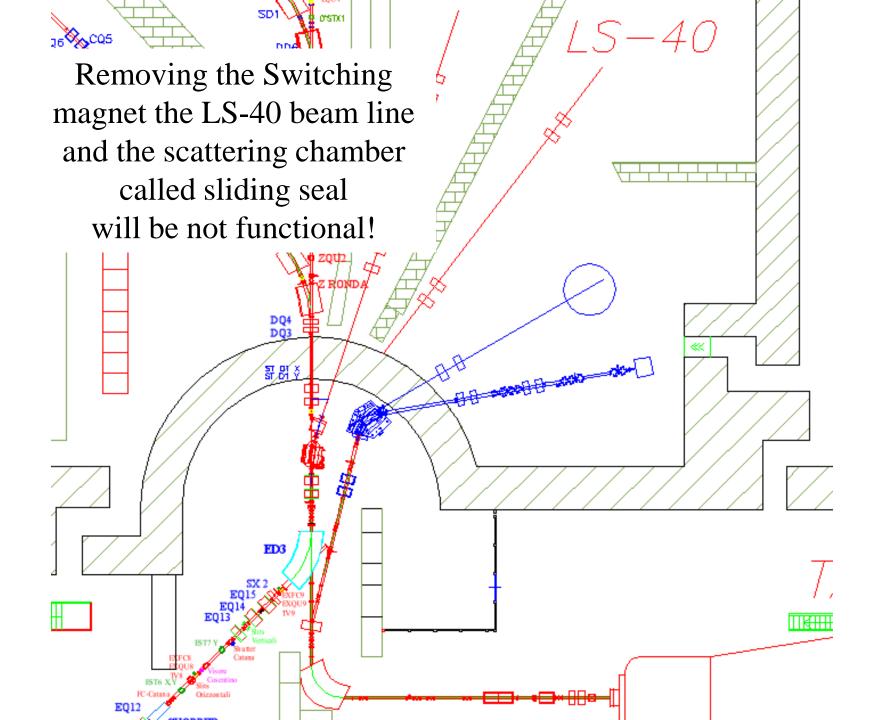
Vertical gap 50 mm Deflection angle 13.8° →15°

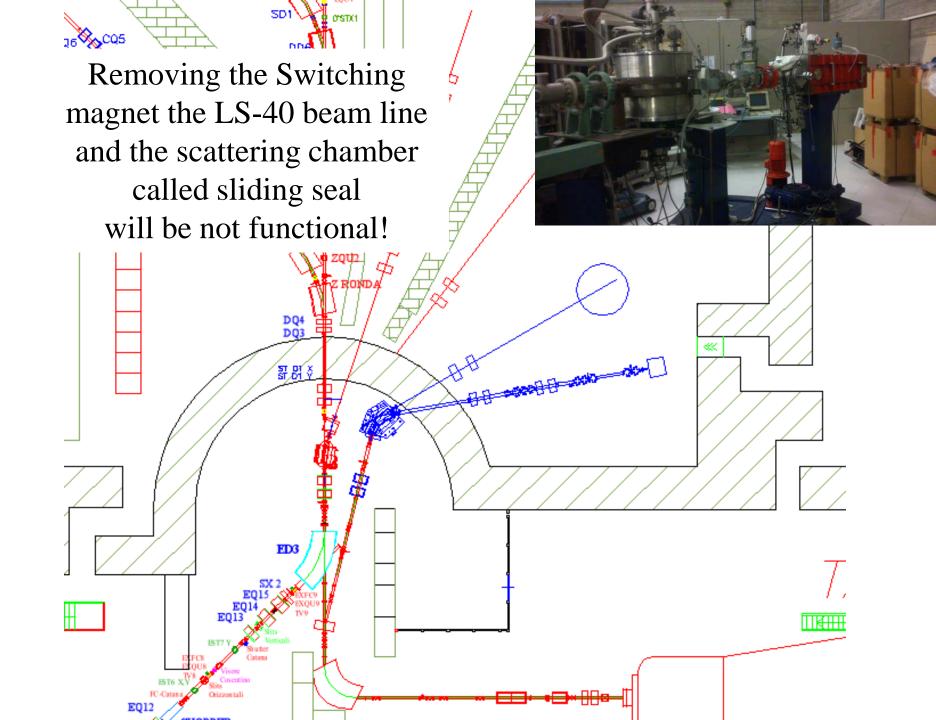
Beam

we need change:

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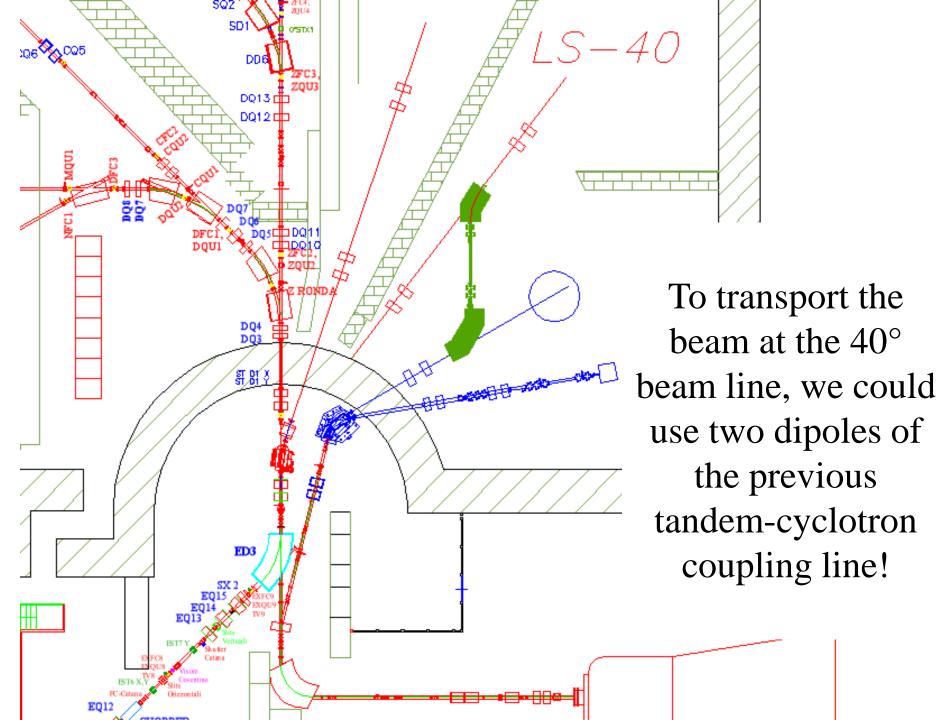
Vertical gap 70 mm Deflection angle 5°

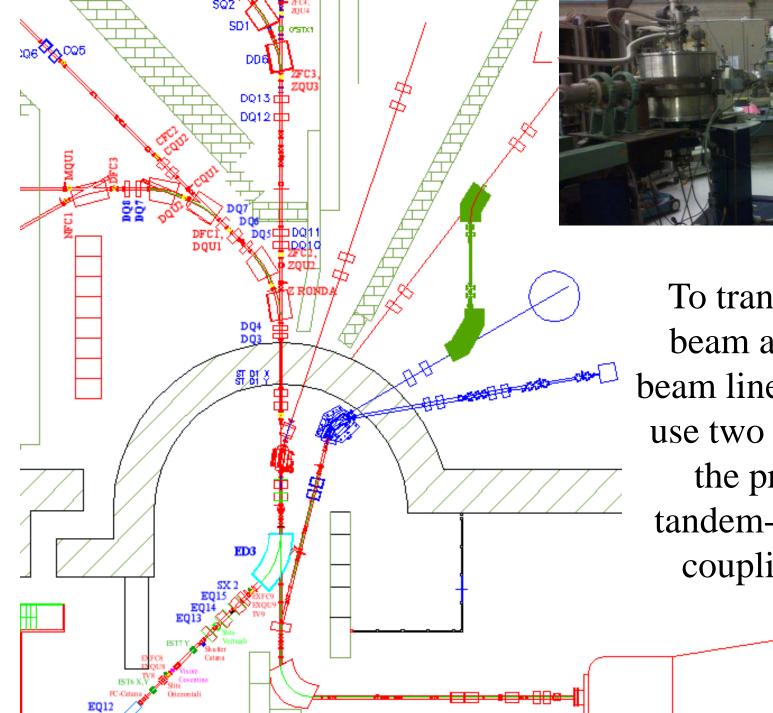




The scattering chamber called Sliding Seal







To transport the beam at the 40° beam line, we could use two dipoles of the previous tandem-cyclotron coupling line!

An alternative and simpler solution could be use just the 40° bending magnet and rotate the beam line and the experimental set-up!

ZOU

DO5 DQ

ED3

ROI

DOU

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