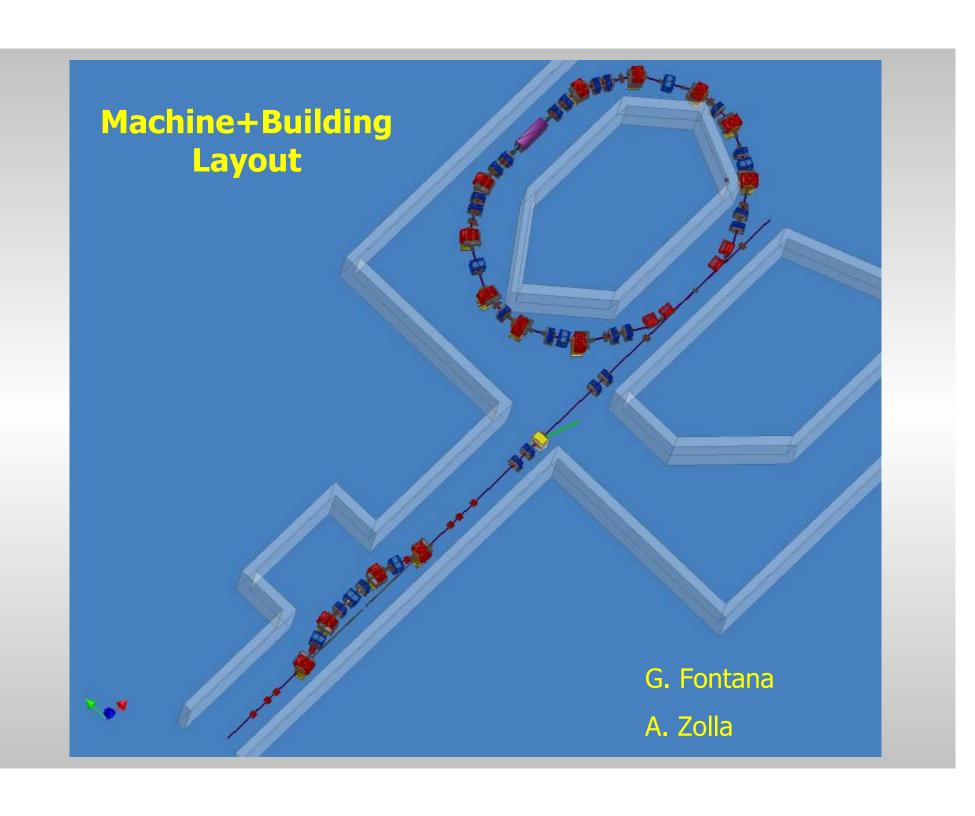




HARDWARE STATUS

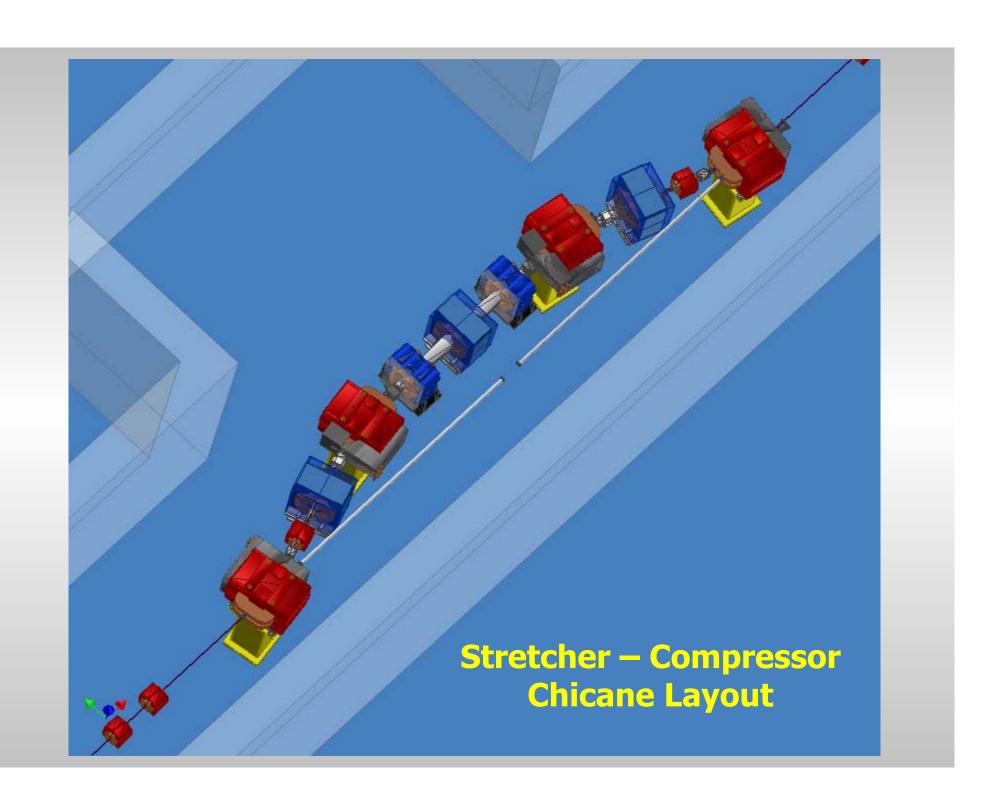
A.Ghigo for CTF3 Collaboration

CTF3 Collaboration Meeting Geneva 30/09 – 01/10 2003



Frascati (INFN - LNF) collaboration

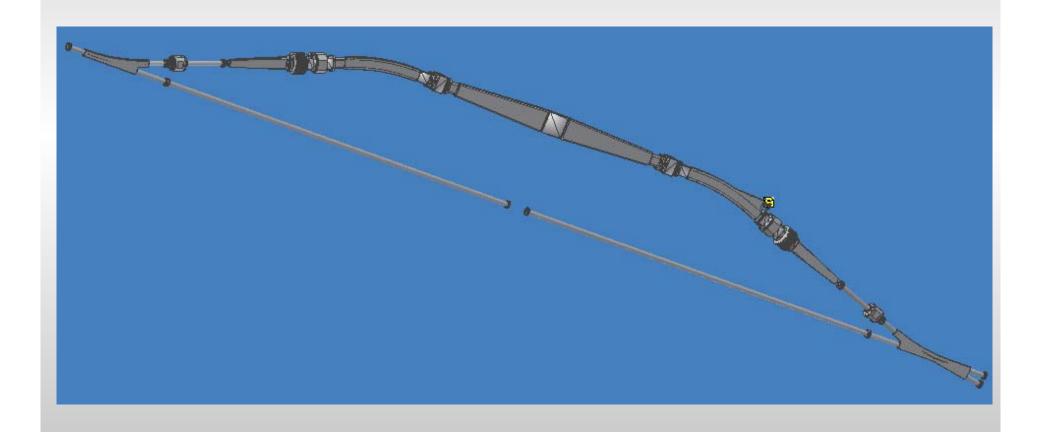
D.Alesini, C.Biscari, R.Boni, A.Clozza, G.Delle Monache, A.Drago, A.Gallo, A.Ghigo (resp), F.Marcellini, C.Milardi, L.Pellegrino, M.A.Preger, R.Ricci, C.Sanelli, M.Serio, F.Sgamma, A.Stecchi, A.Stella, M.Zobov

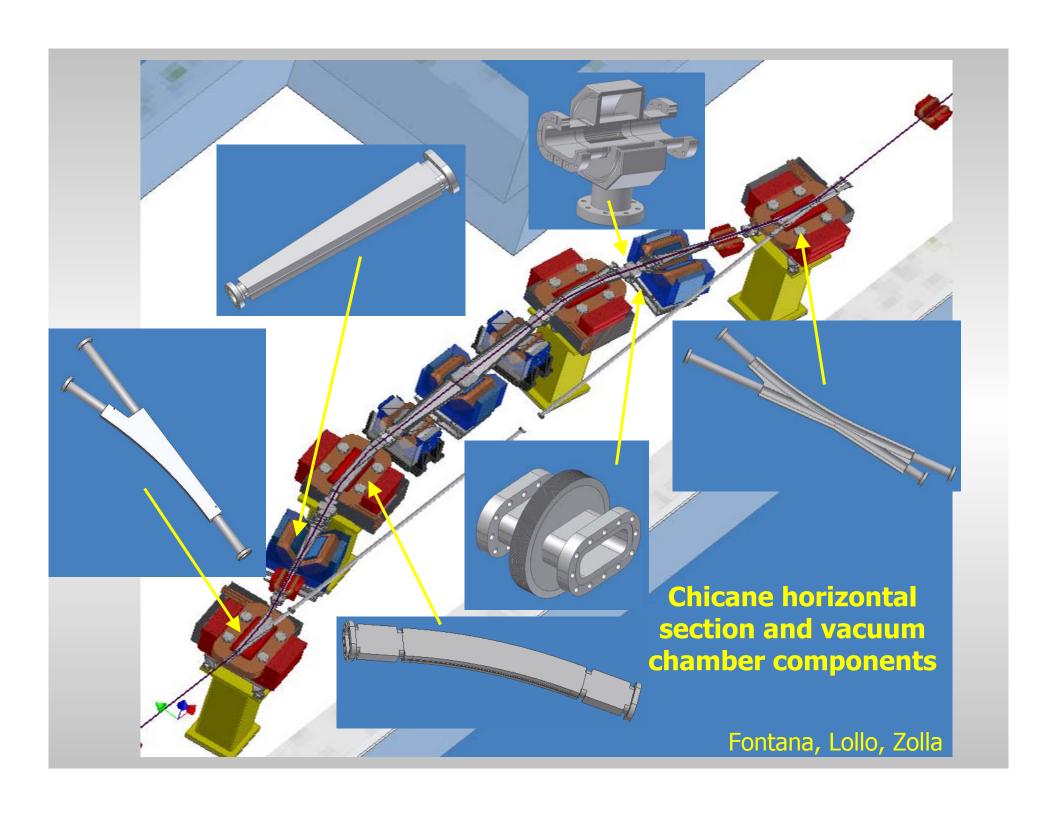


Transfer Line Hardware status

- Transfer Lines magnetic layout completed
- Chicane vacuum chamber drawings: completed (including by-pass)
- TL Vacuum Chambers components ordered:
 - Dipole vacuum chambers (4)
 - Chicane tapered vacuum chamber (3)
 - Pump sections (14 TL+DL)
 - By-pass vacuum chamber (7)
- TL Vacuum Chambers components mechanical drawing ready:
 - Beam position monitor
 - Bellows

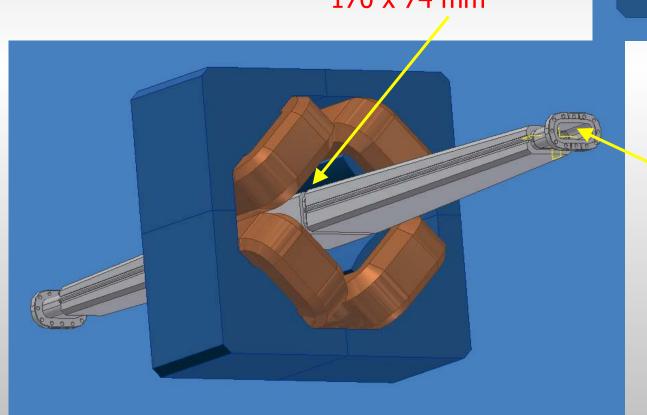
Chicane (arch) beam pipe view

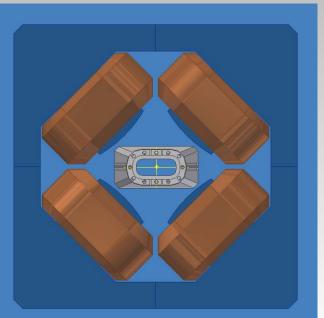




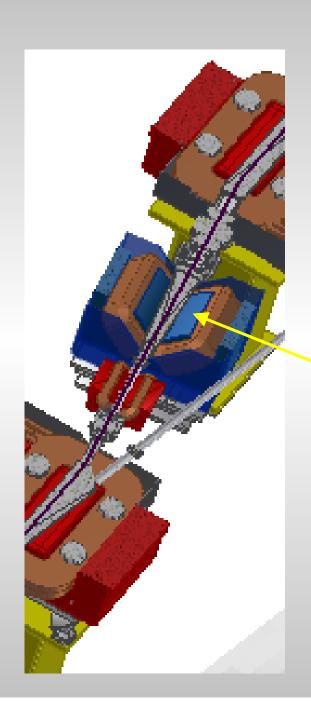
Long tapered central vacuum chamber of the chicane: transverse aperture

170 x 74 mm²



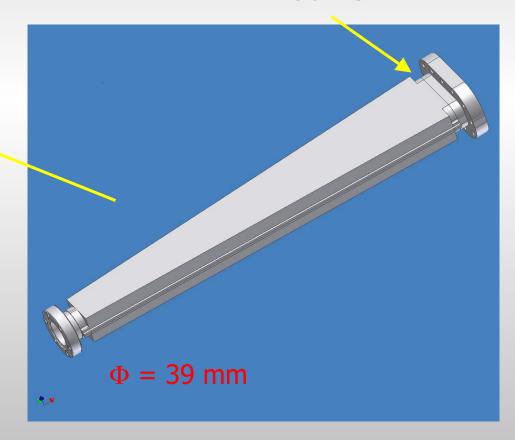


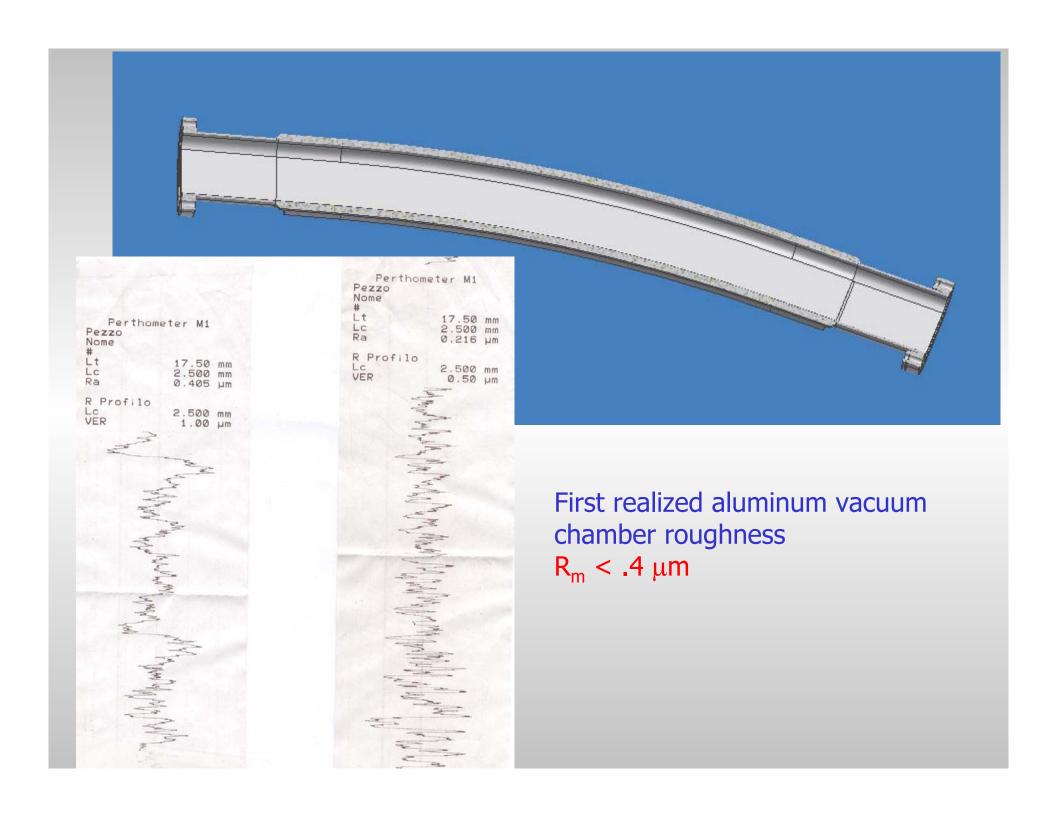
90 x 37 mm²



Tapered vacuum chamber of the chicane: transverse aperture

90 x 37 mm²





Missing Magnets Status

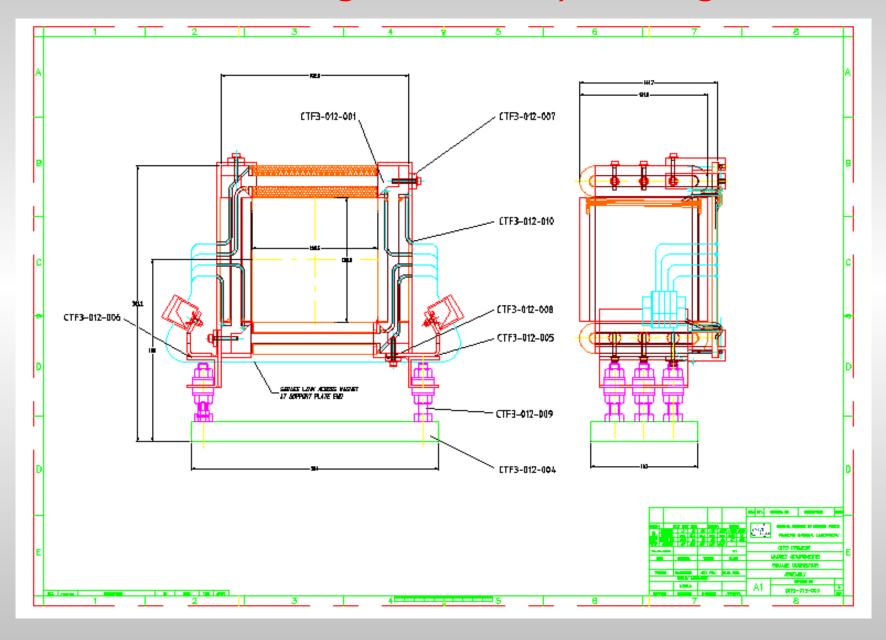
• 22 Corrector magnets:

- Request for INFN authorization: 26 June 2003
- tender request: 15 September 2003
- contract signature: 15 December?
- First delivery (Linac+TL): April-May 2004
- Second delivery (DL): October 2004

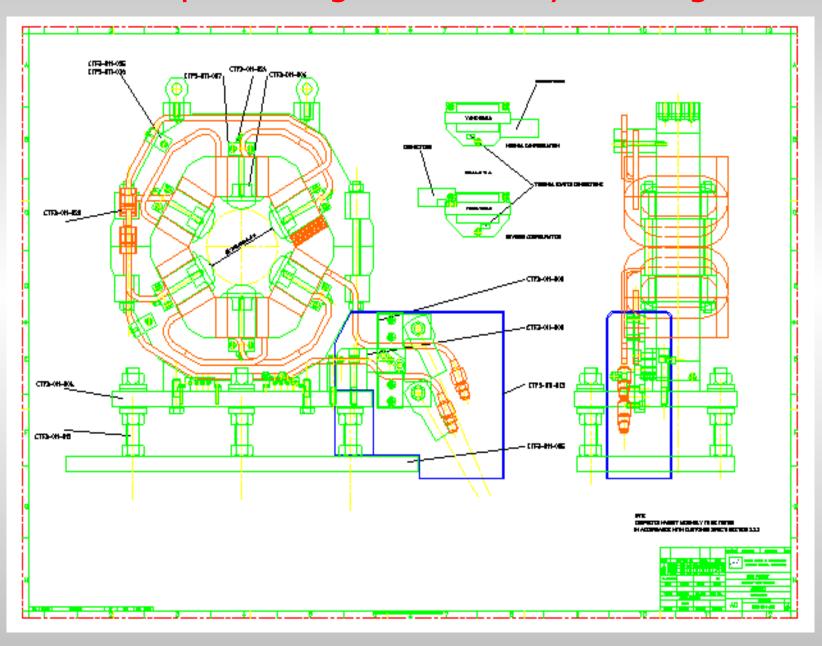
• 8 Sextupole magnets:

- Request for INFN authorization: 7 July 2003
- tender request: 15 September 2003
- contract signature: 15 December?
- First delivery (chicane): June 2004
- Second delivery (DL): December 2004

Corrector magnet assembly drawing



Sextupoles magnet assembly drawing

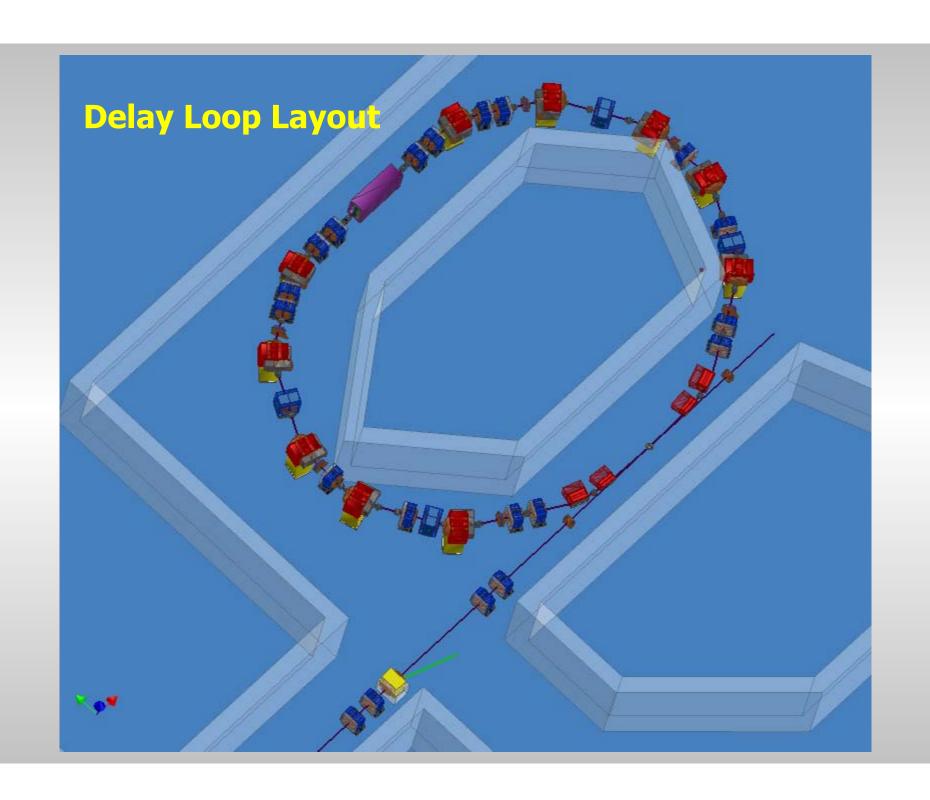


•6 Quadrupoles Magnets (QL):

- ordered through CERN: July 2003
- -Delivery February 2004?

•1 Wiggler magnet:

- -Technical specs and mechanical drawing: November 2003
- -Request for INFN authorization December 2003
- -Delivery February 2005?



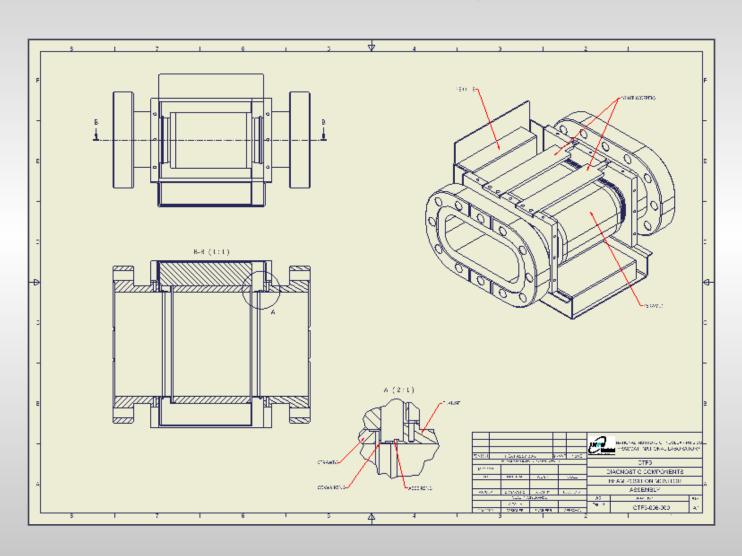
Delay Loop Hardware status

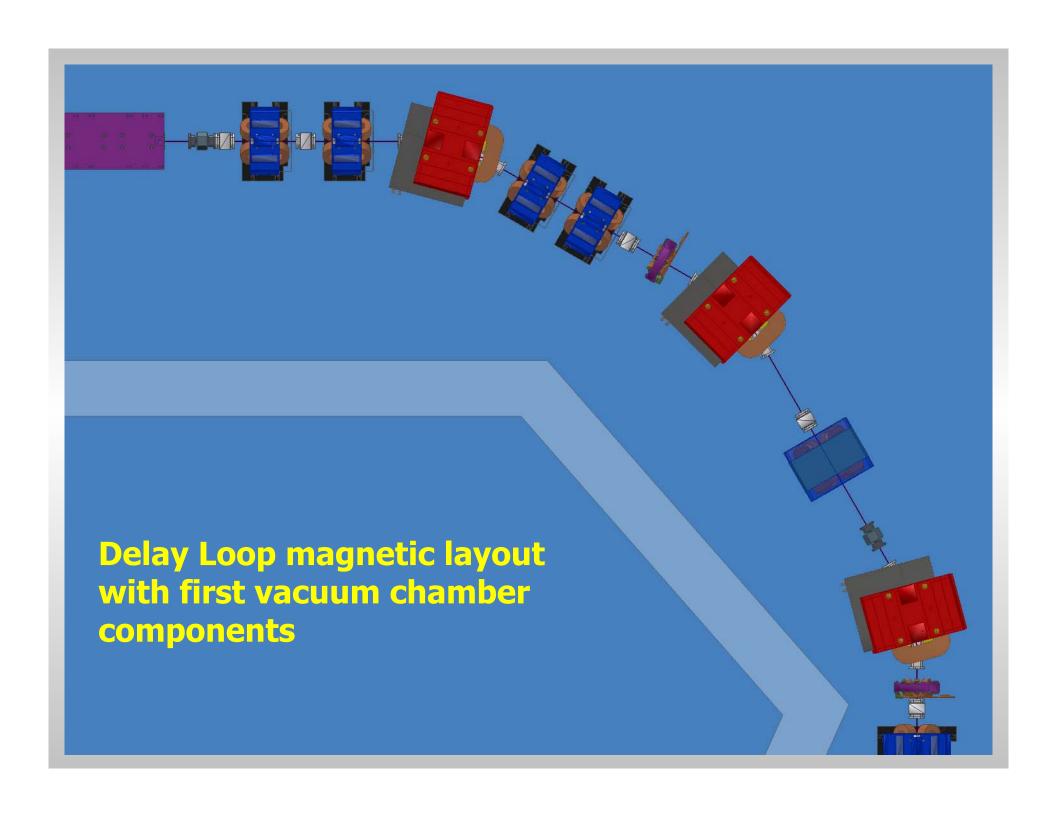
- Delay Loop magnetic layout has been completed, some refinements are necessary
- DL Vacuum Chambers components ordered:
 - Pumping sections
- DL Vacuum Chambers components mechanical drawing ready:
 - Beam position monitor
 - Bellows
 - Dipole magnet vacuum chambers
- DL 1.5 GHz RF deflector electromagnetic design almost finished
- Injection-extraction region vacuum chamber: to be studied

Electronics and magnets power supplies status

- VME Digitizer boards for BPM and current monitors:
 15 delivered
- VME CPU for data acquisition:
 1 complete system in Frascati lab
- Power supplies list for TL and DL magnets using existing CERN PS has been compiled.
- Signal and power cabling: to be studied
- 1.5 GHz RF components: list in preparation

Beam position monitor mechanical drawings





Transfer Line and Delay Loop planning

