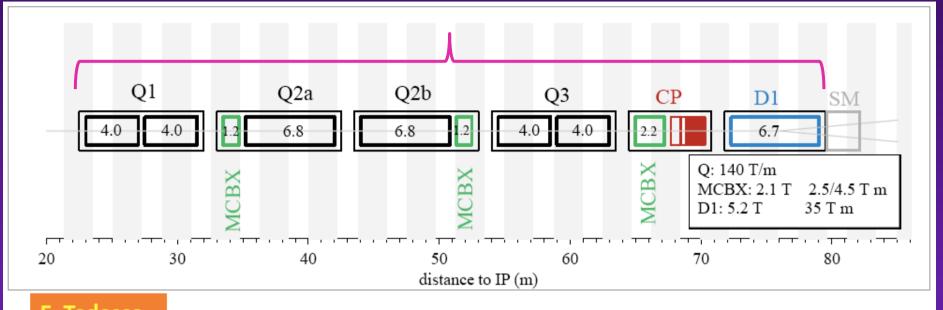
# ACTIONS FROM 7<sup>TH</sup> HL-LHC WP2 TASK LEADER MEETINGS (of 07/05/13)

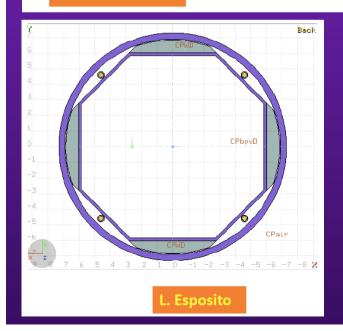
#### **Elias Métral**

- ◆ See https://indico.cern.ch/getFile.py/access?contribId=5&resId=1&materialId=slides&confId=250482
  - => 2 actions for new bean screens of the triplets
    - Impedance?
    - E-cloud?
- Proposed deadline => ~ Mid june

### **NEW BEAM SCREENS**







- ◆ Cold bore: Inner Diameter (ID) = 138 mm
- Octagonal shape for beam screen
  - 2 mm of SS. ID (inscribed circle) = 121 mm
  - Cu coating to be defined
  - Tungsten absorbers (light blue): 6 mm (at the max.)
- 4 times in total: 2 IPs (1&5) and 2 / IP

### **WORK TO BE DONE**

#### I) Impedance studies

- 1) Impedance contributions for the present triplets alone?
- 2) Impedance contributions for these new triplets, assuming the same shape as in previous page for the full length?
- 3) Impedance contributions for these new triplets, assuming that Q1 is smaller? => Tungsten thickness of 16 mm instead of 6 mm
- 4) What is the required tapering in the transition Q1/Q2A?
- 5) What about the Y-chamber whose angle should be bigger (D1 going from ~ 26 T m to ~ 35 T m)

## II) E-cloud studies

- 1) E-cloud effects for the present triplets alone?
- 2) E-cloud contributions for these new triplets, assuming the same shape as in previous page for the full length?
- 3) E-cloud contributions for these new triplets, assuming that Q1 is smaller? => Tungsten thickness of 16 mm instead of 6 mm