



ALICE

Magnet Stray-fields in the ALICE UX25 cavern

ALL VALUES in mT

Measurements done on

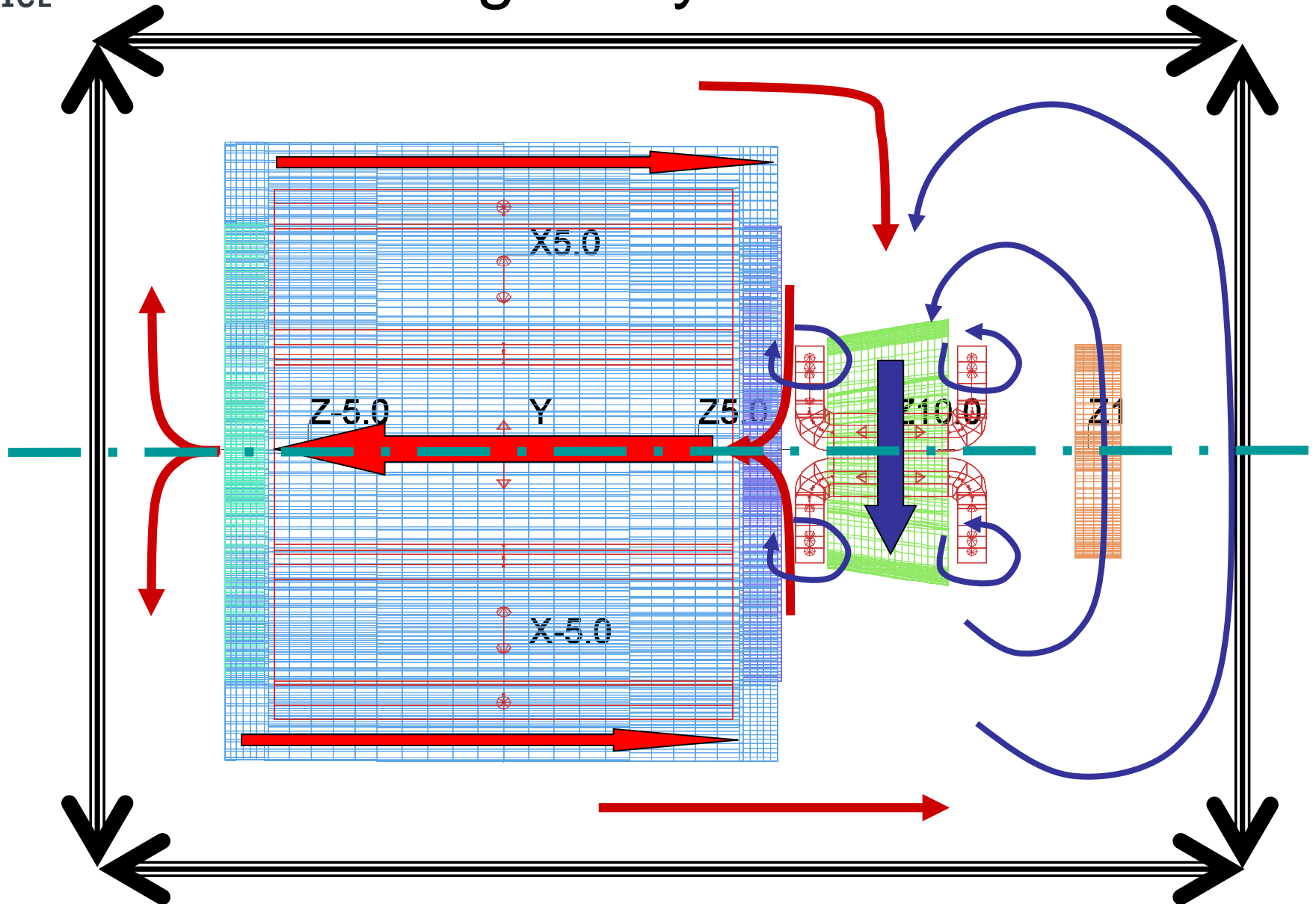
05 December 2014

By

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L3 magnet @ 30'000 A
Dipole off

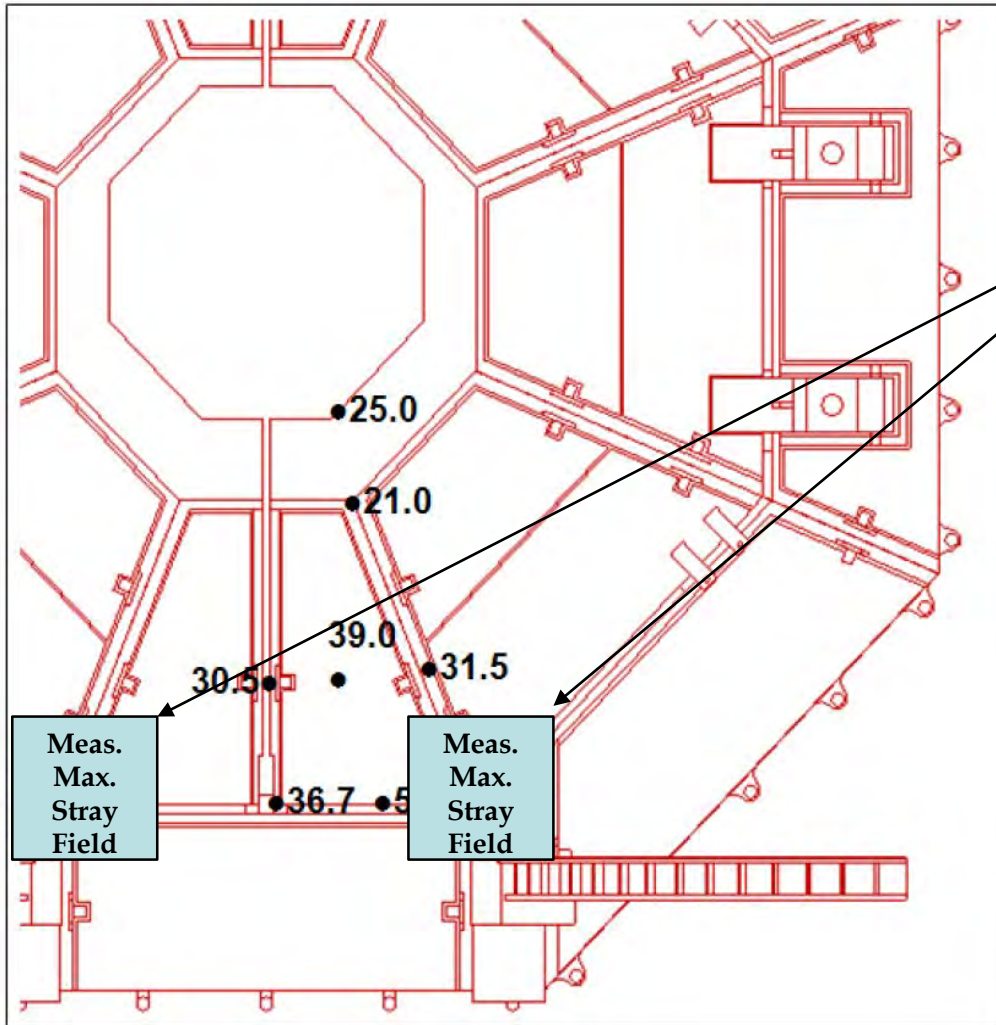
ALICE magnet system FE-model



L3 Stray Field Measurements Details

- ◆ 5.12.14 10:00 – 12:00 L3 solenoid on, Dipole off
- ◆ Measurements during ramp up of L3 taken at level 0 in front of L3 doors @ 10 cm distance
- ◆ Measurements represents max. values found at a position of approx. 1.5m above floor
- ◆ Device used: HIRST GM05 GAUSSMETER with axial Hall Probe, Accuracy of device +/- 0.35 %
- ◆ Background value at lev. 0 in front of L3 doors @ 2m distance and 1.5 m height: 0.2 mT

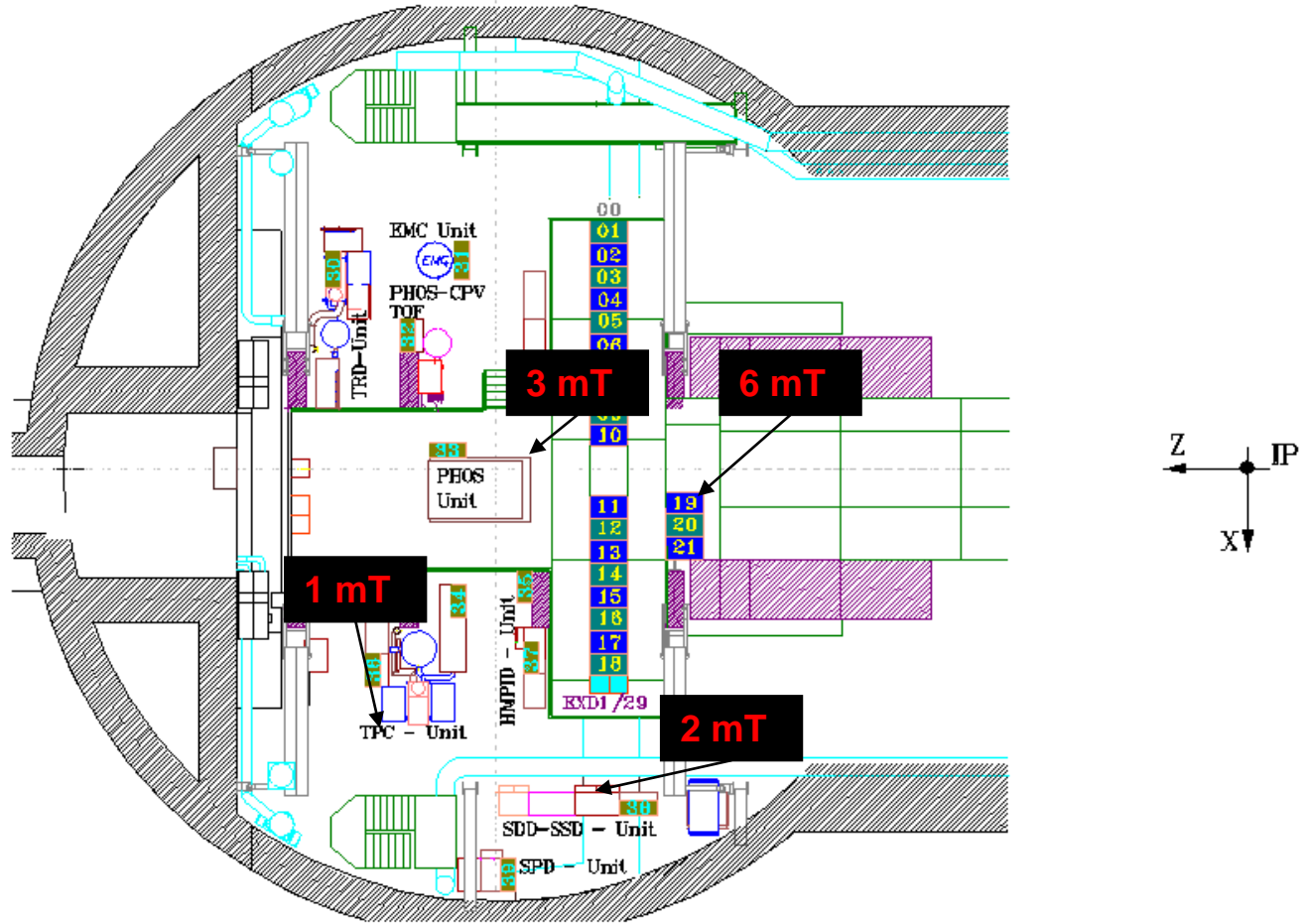
UX25: L3 – Doors @ 10 cm distance from door



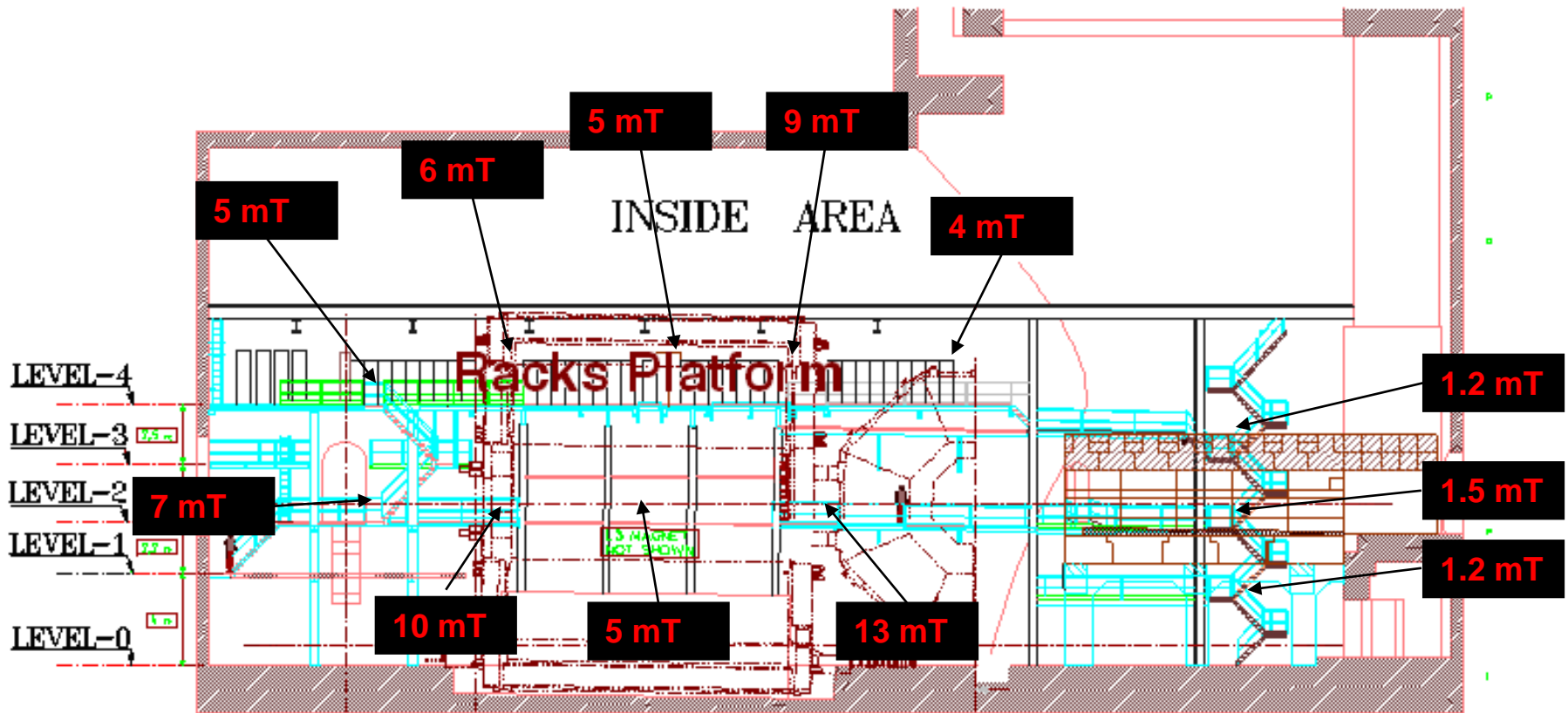
L3 current [A]	Max. meas. Value [mT]
0	0
5,000	4
10,000	10
15,000	17
20,000	30
25,000	66
30,000	130

UX25

CAVERN UX25 Area-A Racks and Cooling-Units location



UX25 – I Side

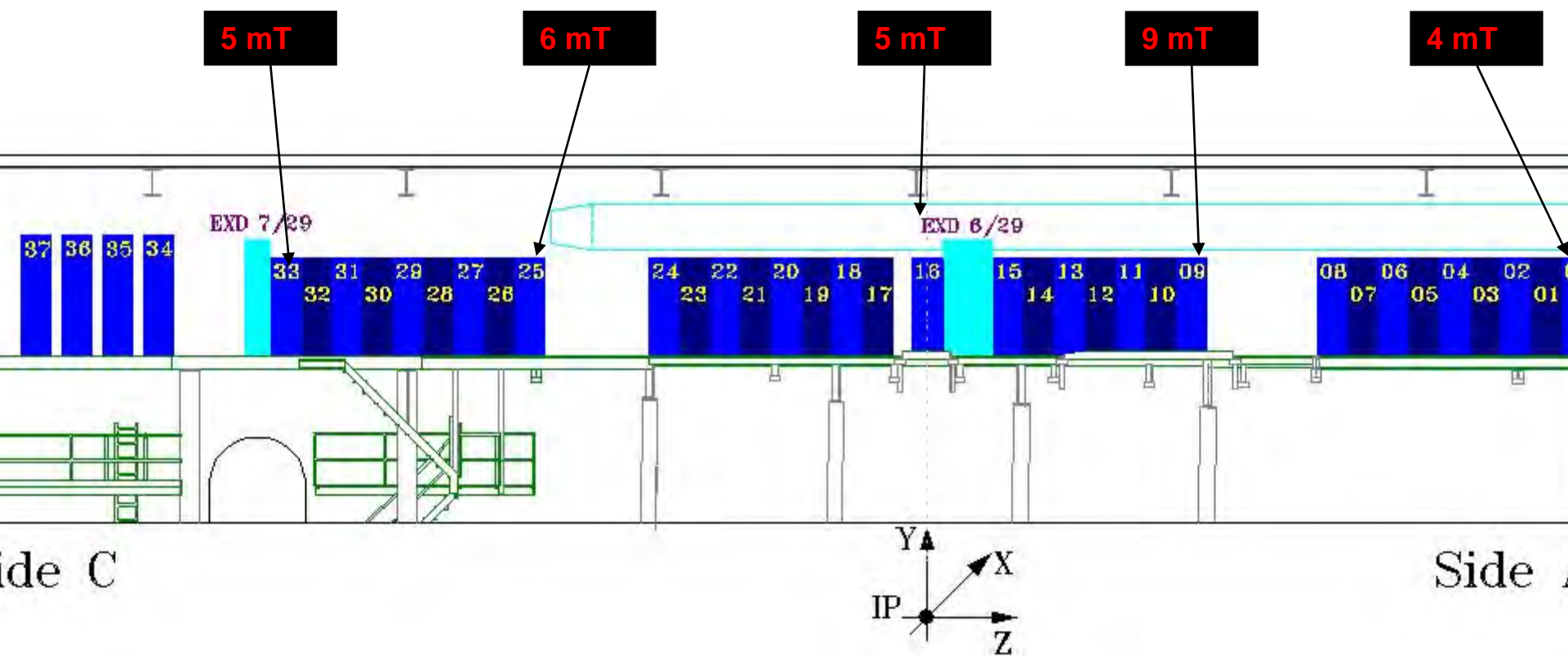




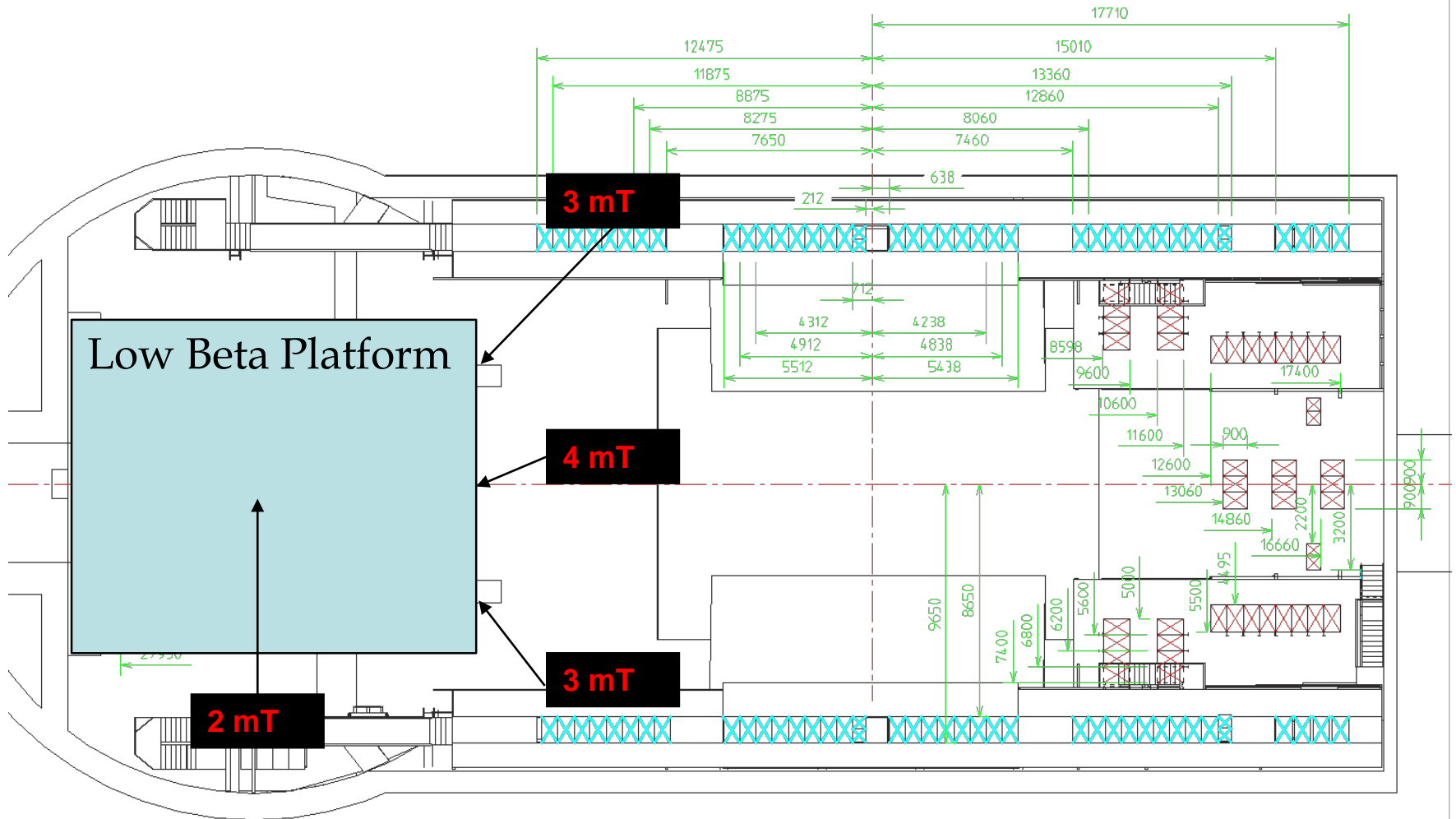
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CAVERN UX25 , Side : In LHC Ring

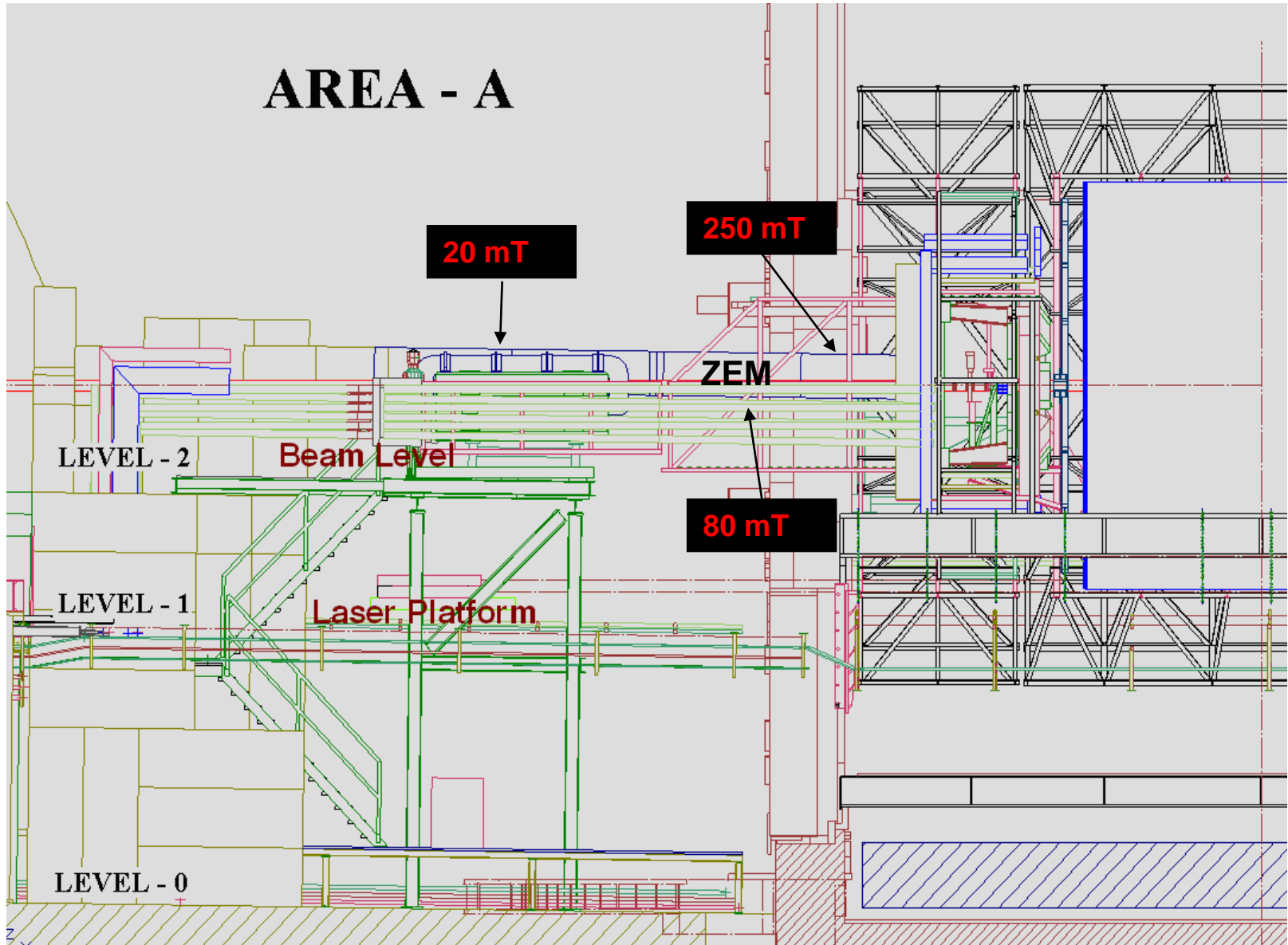
Platform IL4 : Racks position



UX25 – Level 3

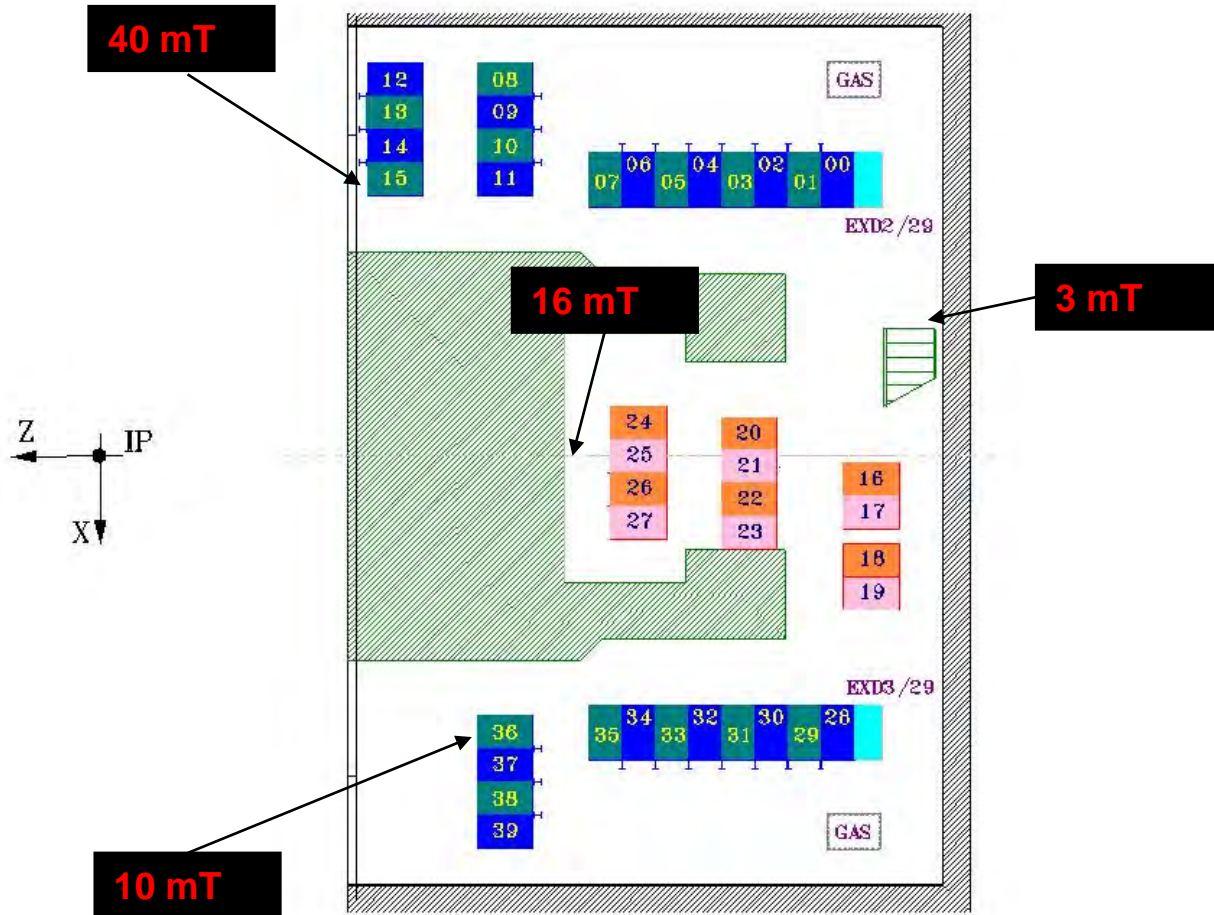


UX25 - Miniframe



UX25 – Level 0 (only L3 on / Dipole off !)

CAVERN UX25 Area-C
Racks position



UX25 – Level 1 (only L3 on / Dipole off !)

