

Magnet Stray-fields in the ALICE UX25 cavern

ALL VALUES in mT

Measurements updated on

09 January 2015

By

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L3 magnet @ 30'000 A

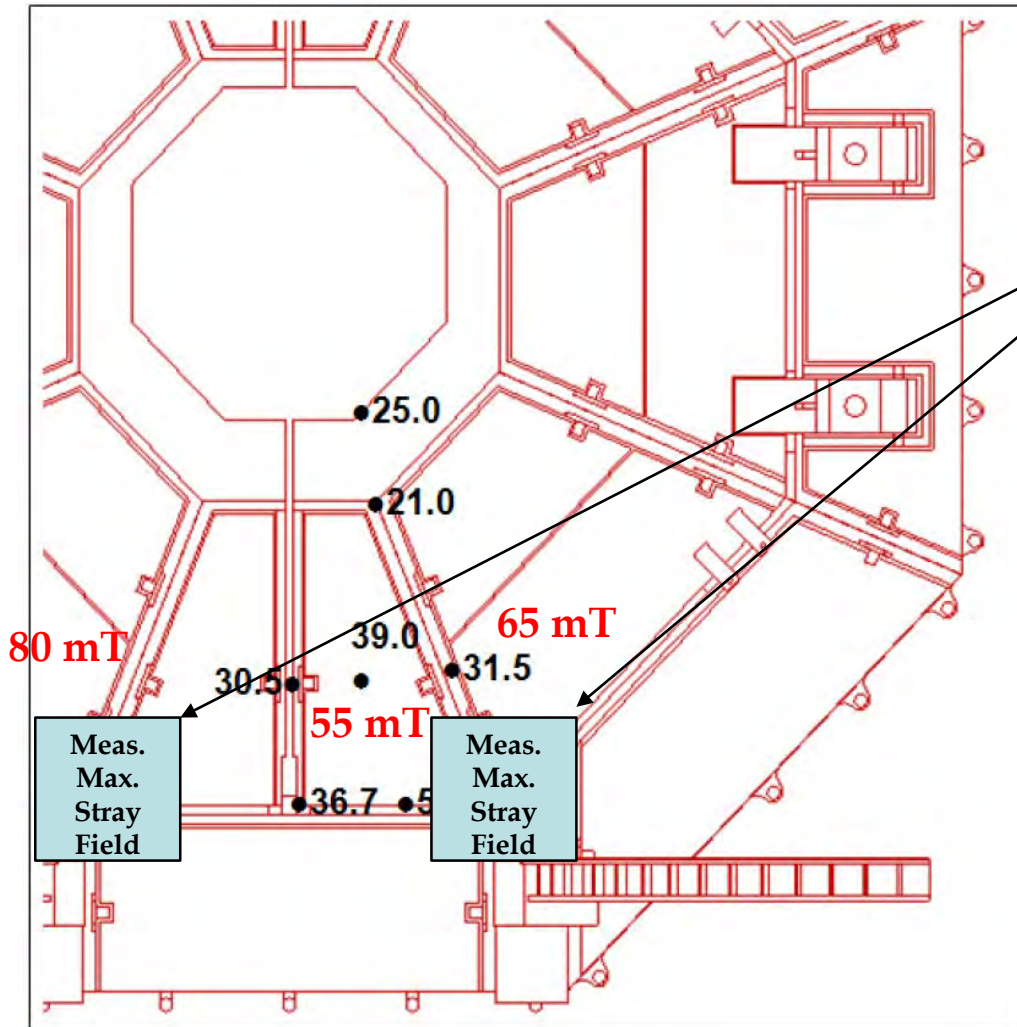
Dipole @ 6'000 A



L3 solenoid and dipole Stray Field Measurements Details

- ◆ 09.01.2015 updated measurements with L3 solenoid and dipole on at nominal field.
- ◆ 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 at entrance cavern I-side @1.5 m height: **0.8 mT**

UX25: L3 – Doors @10 cm distance from door



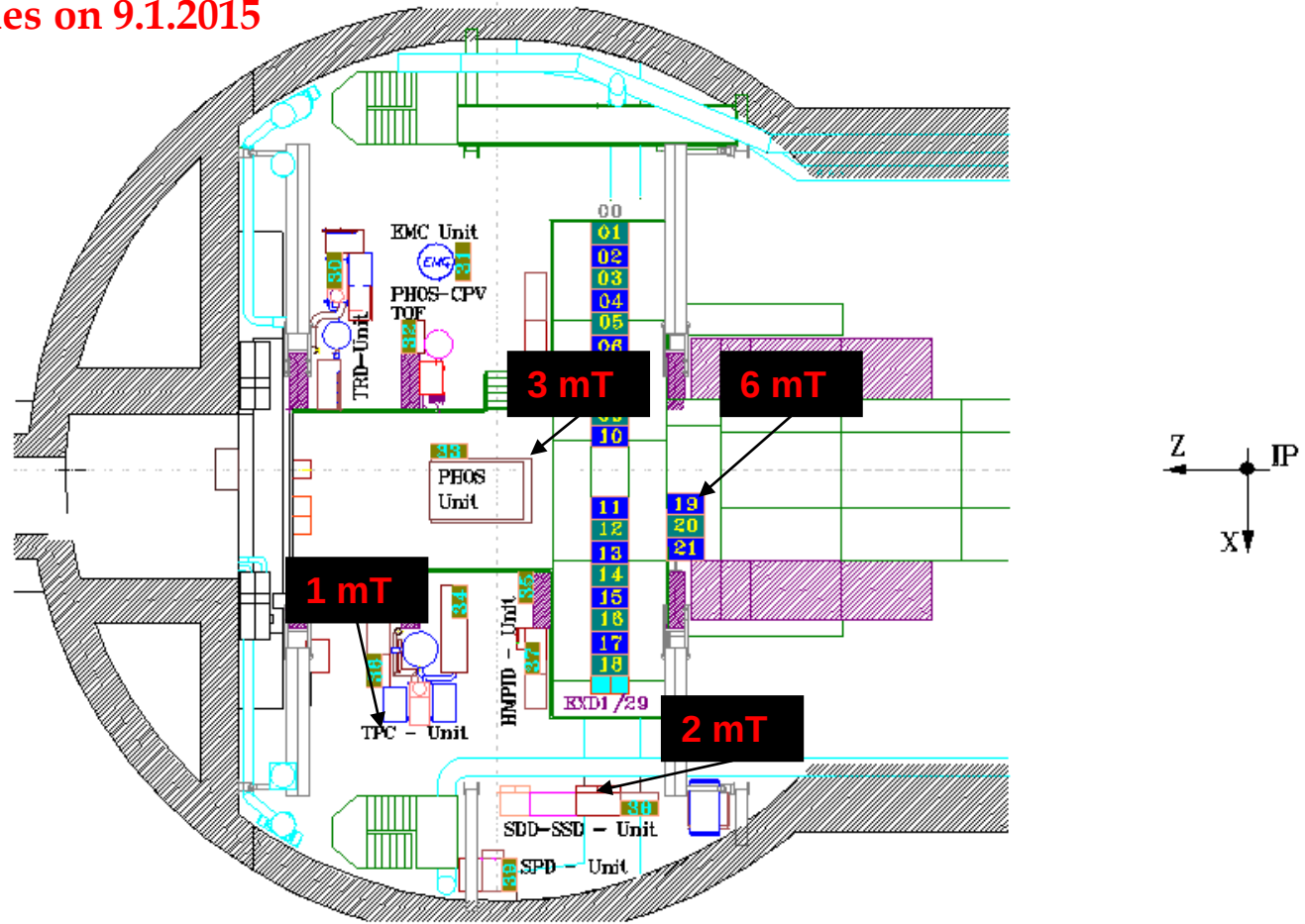
L3 current [A]	Max. meas. Value [mT]
0	0
5,000	4
10,000	10
15,000	17
20,000	30
25,000	66
30,000	130

In red measurements taken on 9.1.2015

UX25

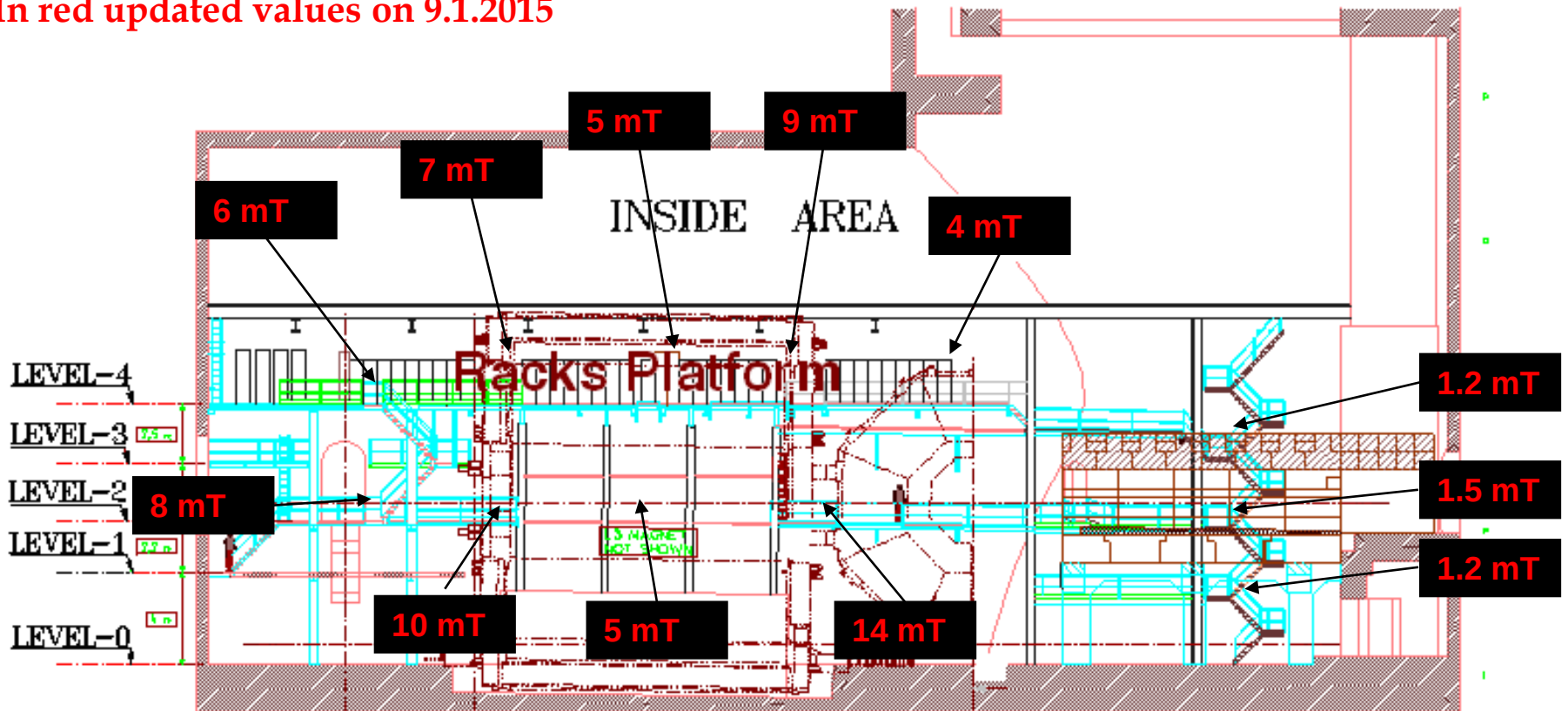
CAVERN UX25 Area-A Racks and Cooling-Units location

In red updated values on 9.1.2015



UX25 – I Side

In red updated values on 9.1.2015



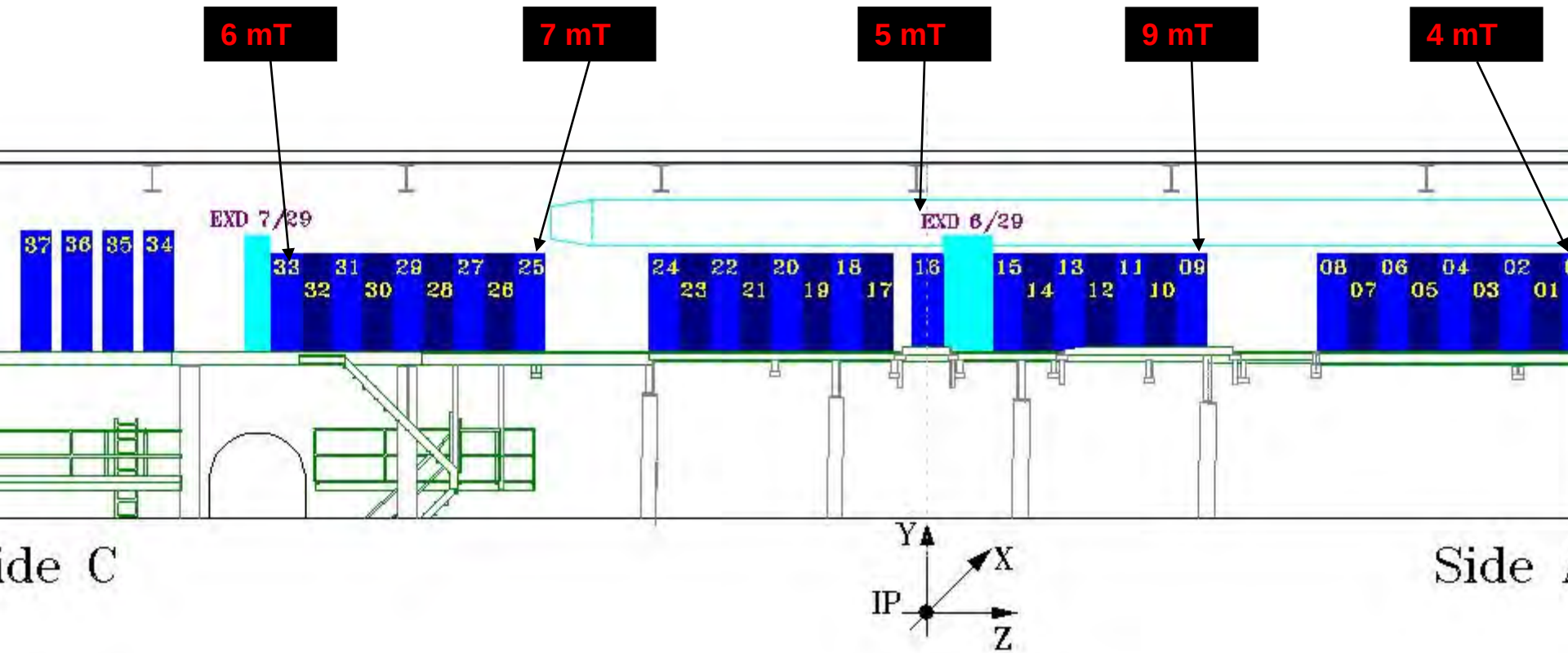


ALICE

CAVERN UX25 , Side : In LHC Ring

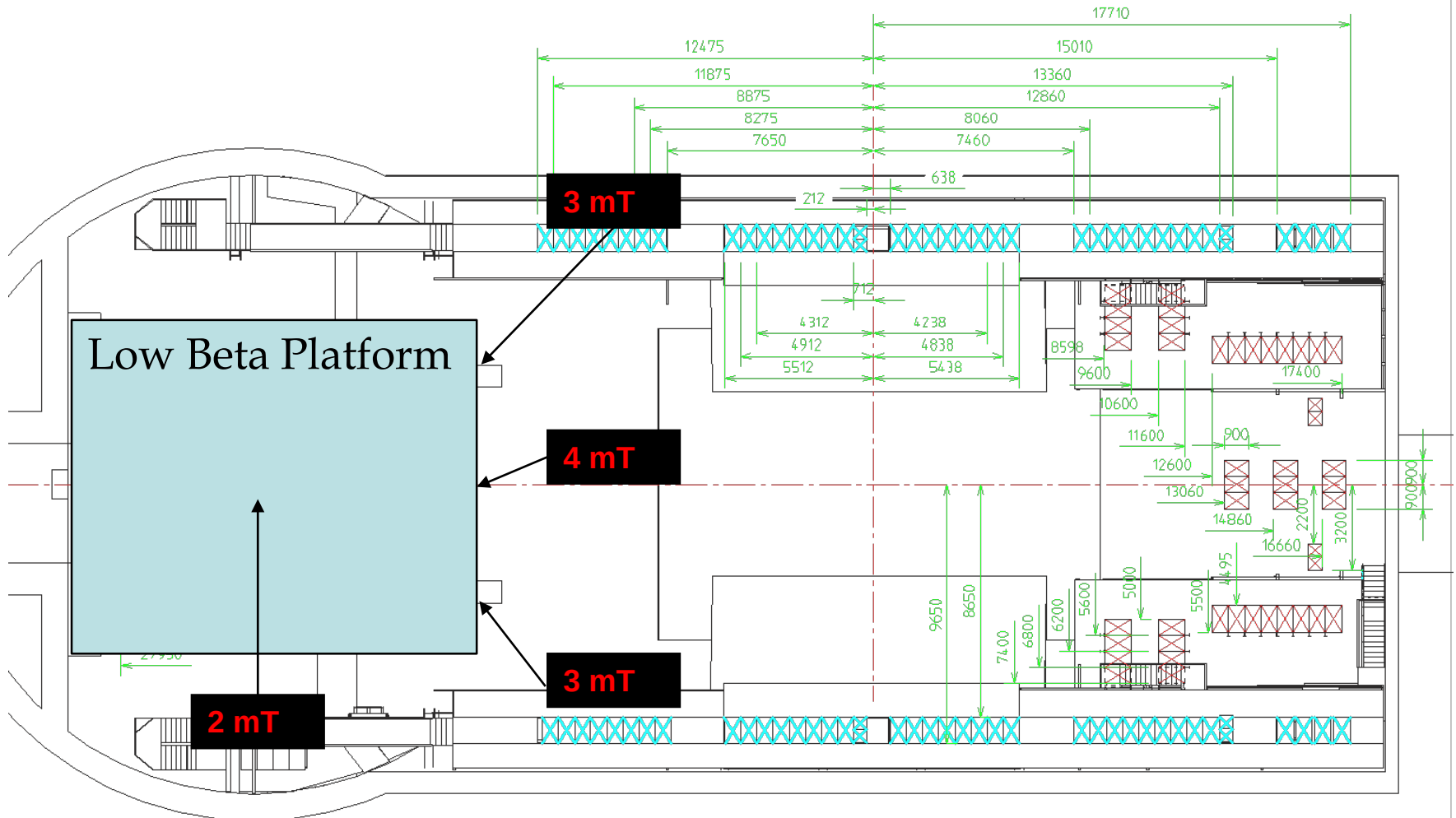
Platform IL4 : Racks position

red updated values on 9.1.2015

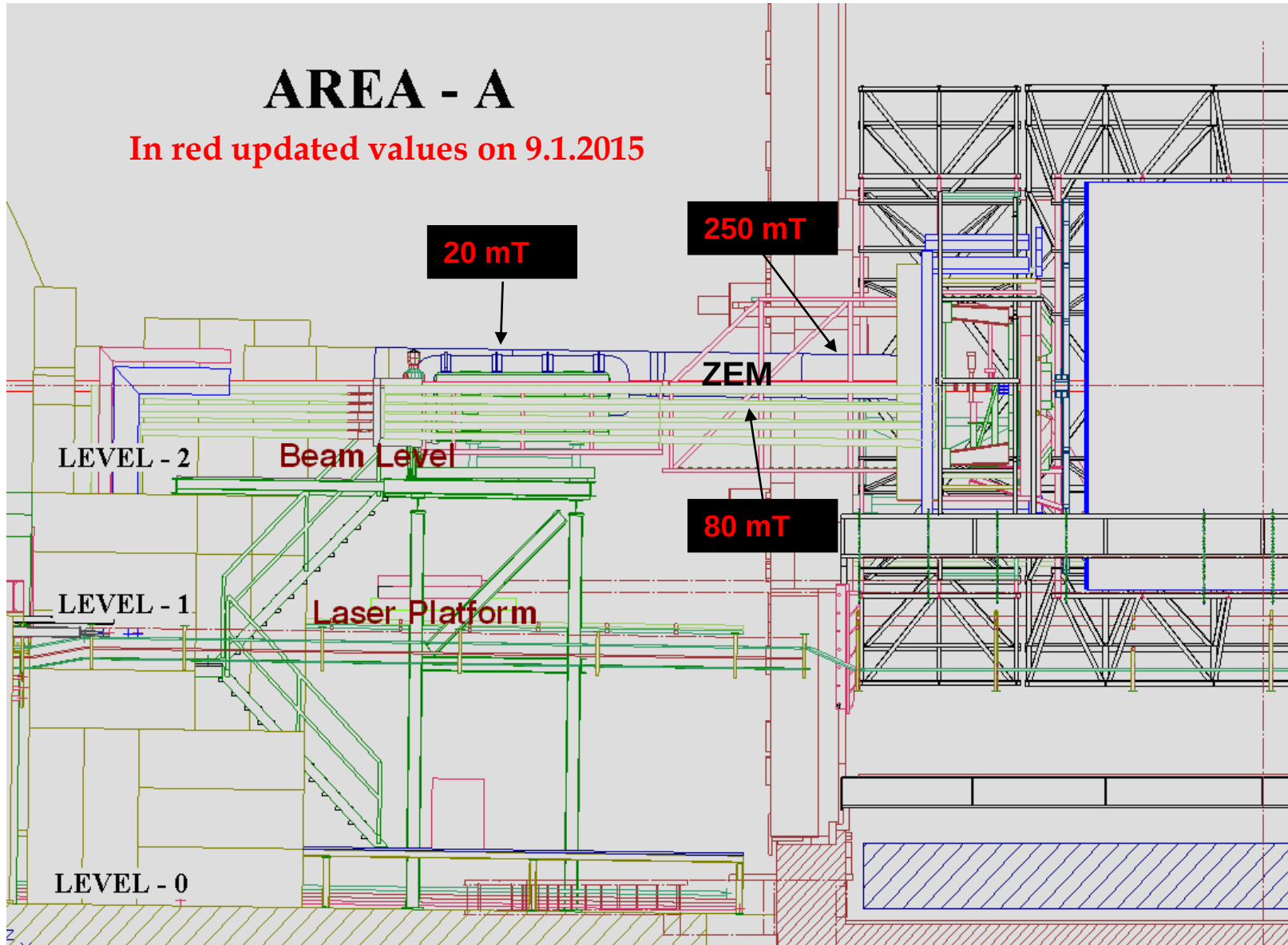


UX25 – Level 3

In red updated values on 9.1.2015



UX25 - Miniframe

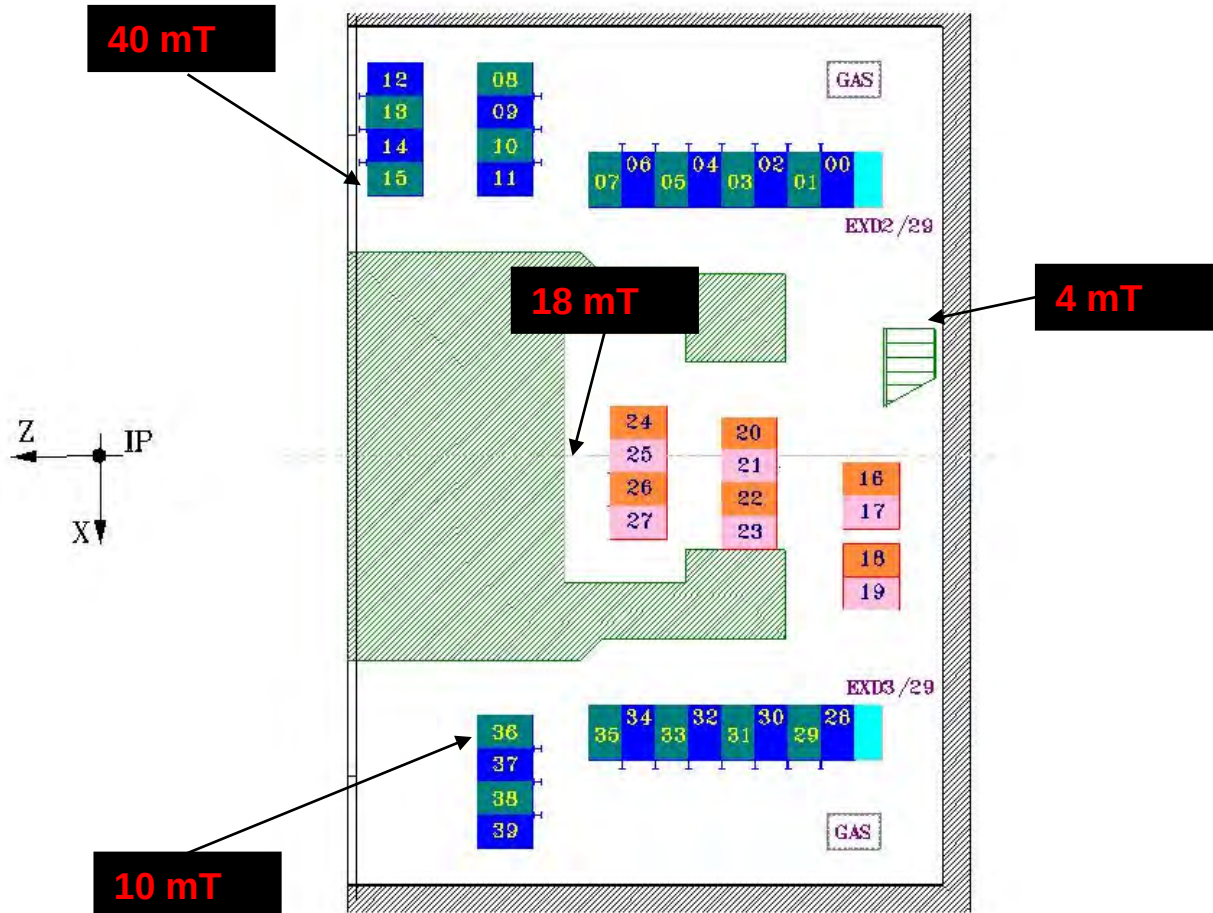


UX25 – Level 0 (only L3 on / Dipole off !)

CAVERN UX25 Area-C

Racks position

In red updated values on 9.1.2015



UX25 – Level 1(L3 on and Dipole on !)

In red updated values on 9.1.2015

