

TAXN @ P1 and P5

TAXN at P1 and P5 function remain unchanged BUT:

- HL-LHC operation will increase the activation and deposited power (1.8 kW @ 7.5x10³⁴ cm⁻² s⁻¹)
- They will be moved 13.8 m towards IP respect to its current position.
- HL-LHC layout shortens length by 160 mm
- A new WPS alignment system will be placed on it.



Need active cooling



Full remote handling

Removal of Cu bars/detectors

- Two systems:
- P1- Overhead crane

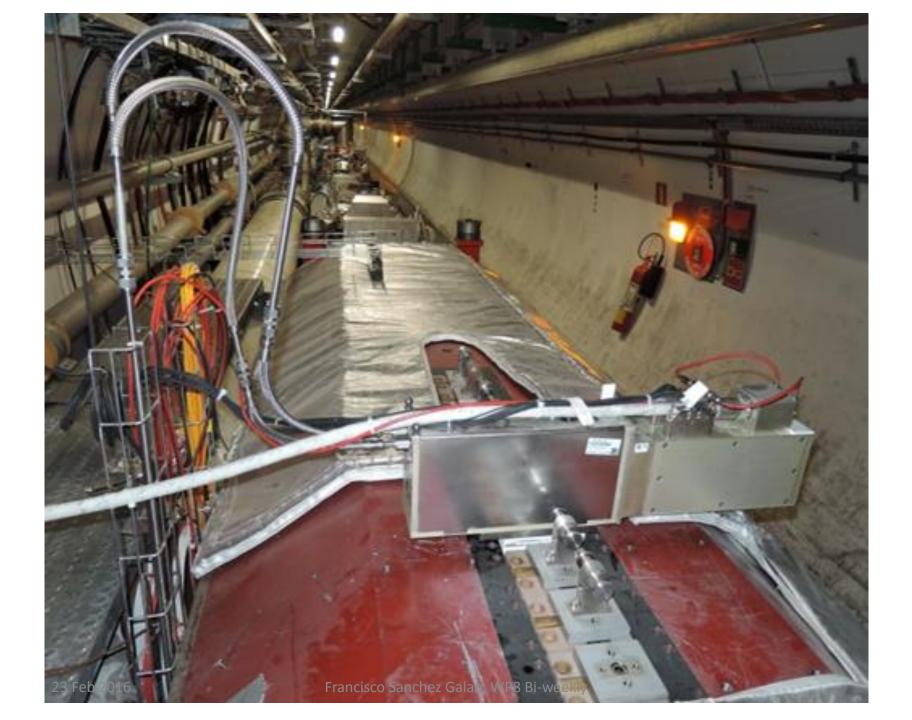
• P5- ZDC (HXTC)crane

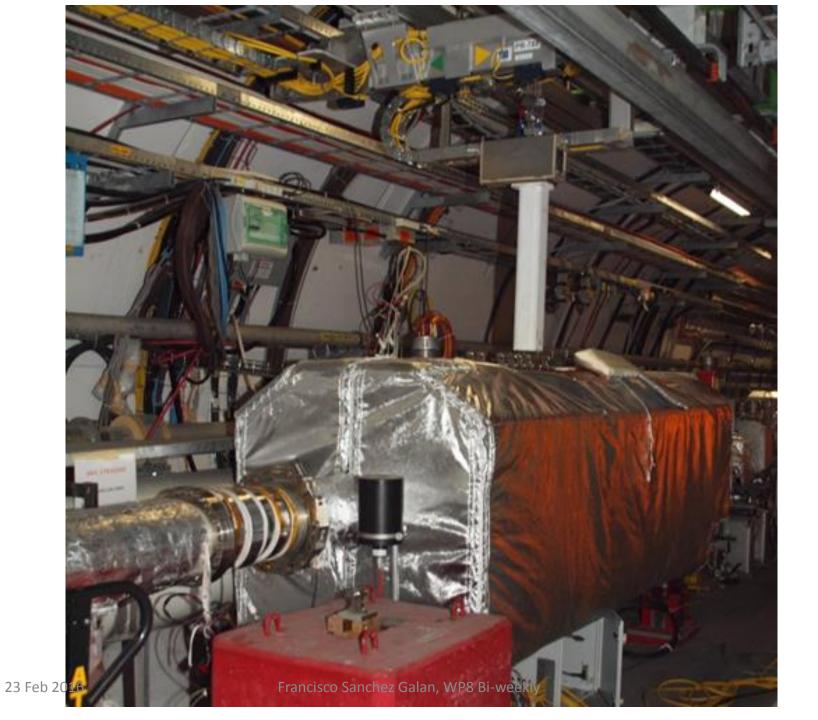
https://edms.cern.ch/document/1060374/3

https://edms.cern.ch/document/1392936/0.1 https://edms.cern.ch/document/1438508/0.1

- P1 more flexible, but not fully remote.
- TAXN in a new location, is it ok?

Once the radiation veto has been removed, two people belonging to the EN/HE group will enter the tunnel and walk to the TAN to connect the tools needed for the operation of the remote handling system [2]. In the meanwhile the detector teams will

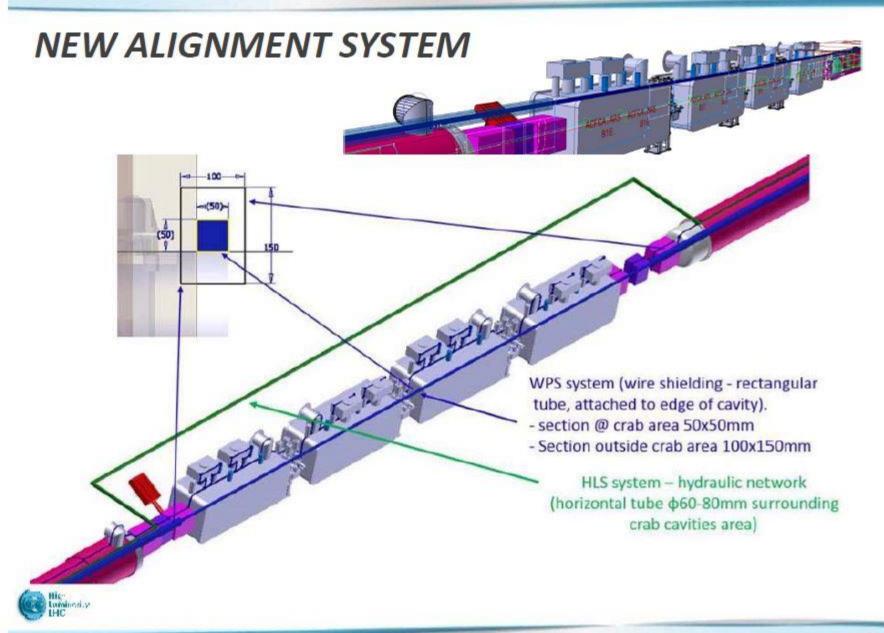




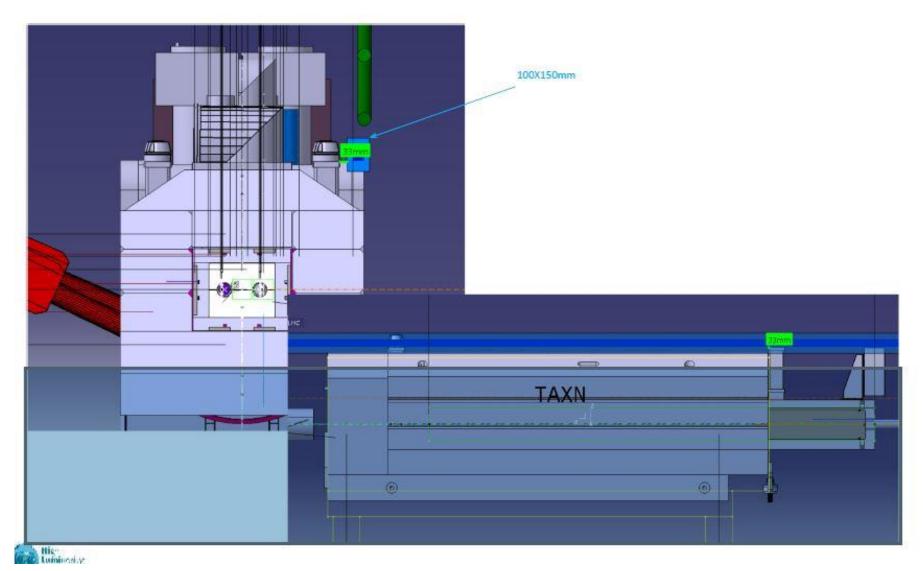


23 Feb 2016

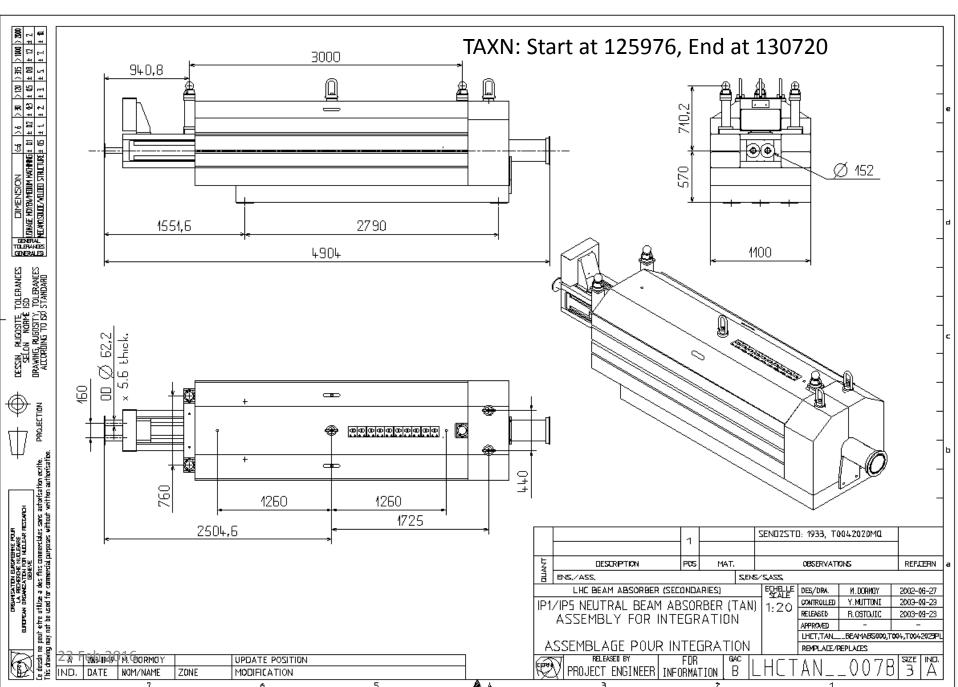
Francisco Sanchez Galan, WP8 Bi-weekly



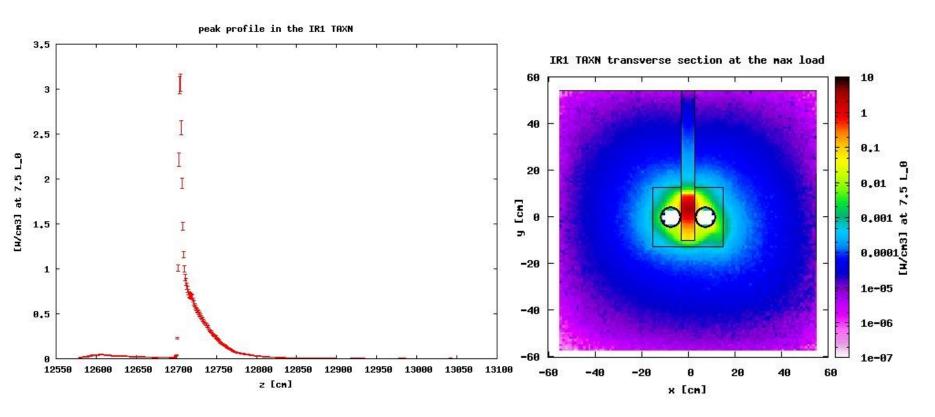
TAXN AREA



TAN: Start at 139820, End at 144720



TAXN @ IR1 Peak power density



F. Cerutti

TAXN P1 & P5 Open issues (some of them)

[Still in conceptual design phase]

- INERMET vs Cu (gains?)
- Quick connection
- Cooling system
- Operation ZDC-TAXN-BRAN Crane & lifting devices, need to be adapted or changed?