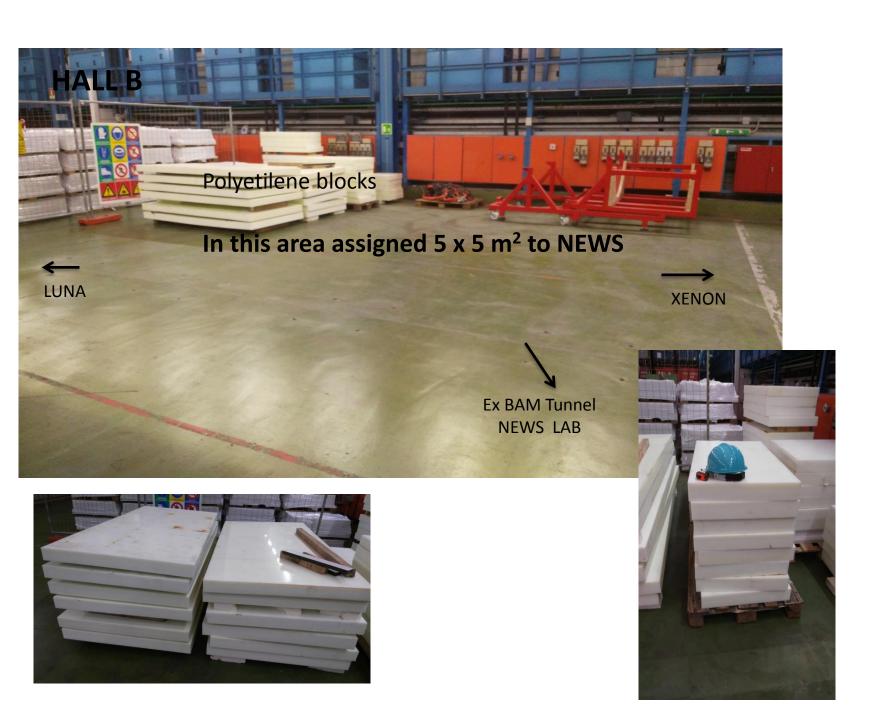
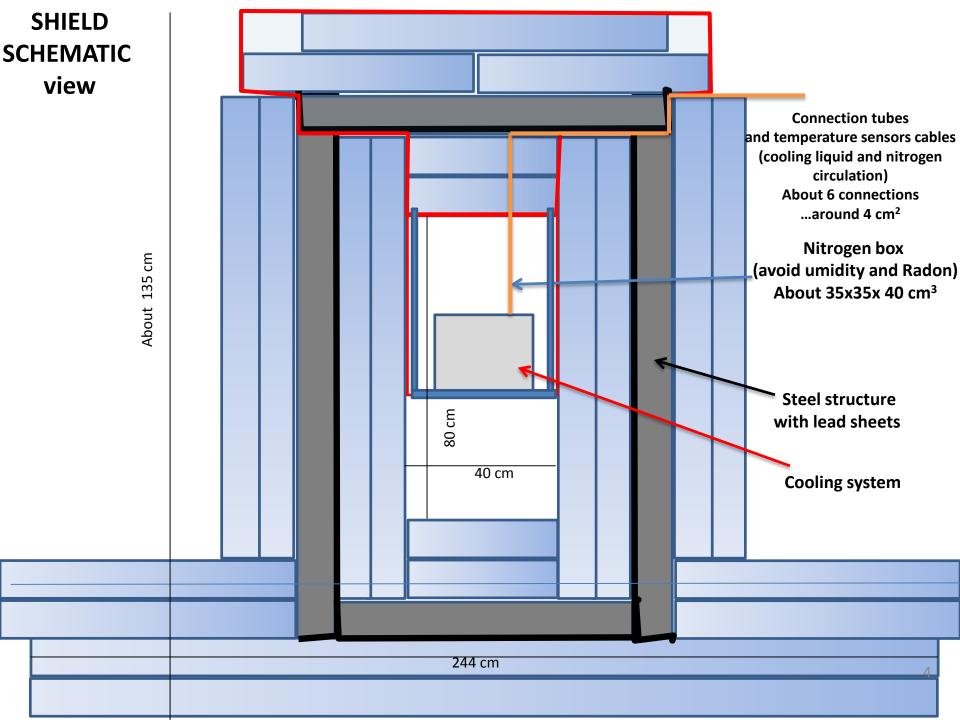
SHIELD for 10gr exposure with cooling system

N. D'Ambrosio – V. Tioukov

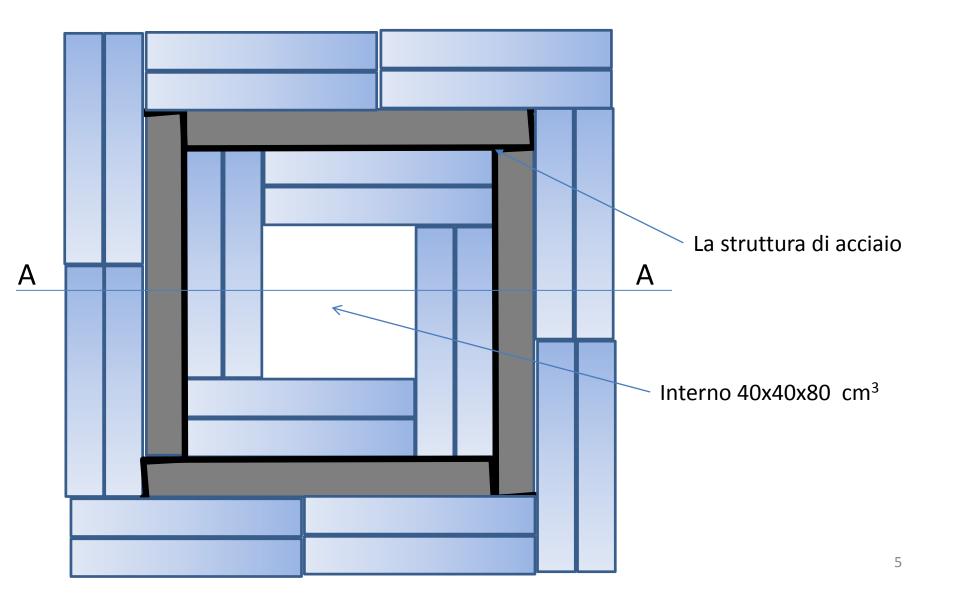
SHIELD for 10 gr exposure

- Area in Hall B assigned by LNGS
- Structure defined by Valery and Nicola and technical project finalised by D.
 Orlandi (LNGS engineer)
- Optimize the use of polyethylene blocks (from Darkside), use of the OPERA lead sheets and minimize the costs for the structure
- Steel structure defined, tomorrow meeting with Orlandi to define the final optimization and schedule for construction
- Network connection with temperature log system accessible by network (System ready)
- Optimize the thermal insulation path of the connection tubes (refrigeration liquid and Nitrogen)

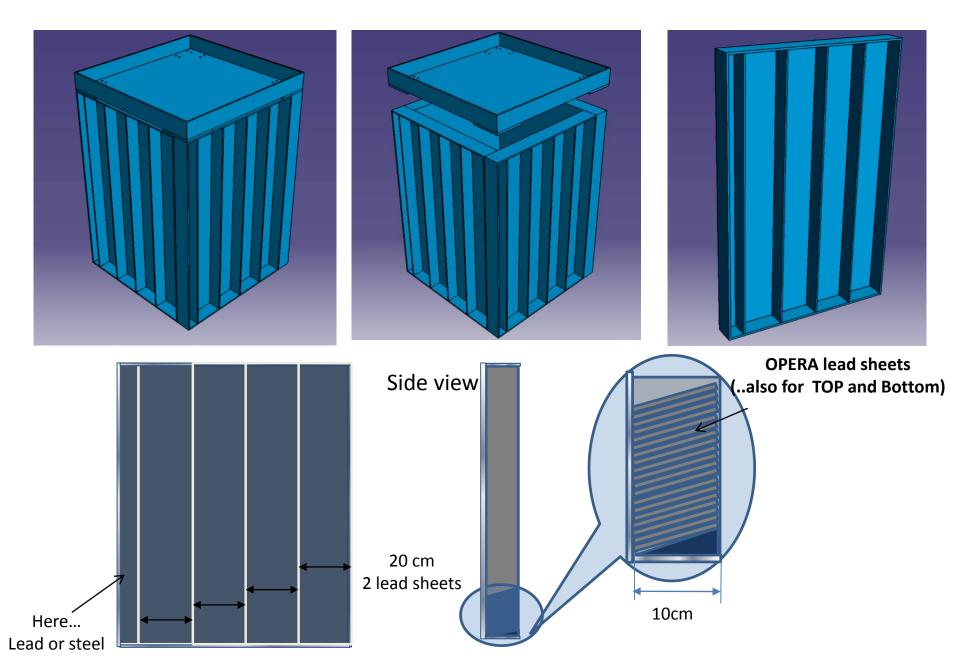




Vista da sopra, sezione C-C



SHIELD: Steel structure



Apprximate material budget

Polyethylene

 Total polyethylene weight – about 3000-4000 kg

Lead

- 4 walls 10x92x140 cm about 1400 kg/wall
- bottom 10x80x80 cm
- top 10x80x80 cm about 700 kg of lead, about 1000 – 1100 kg with polyethylene
- Totale lead weight: 7000 kg