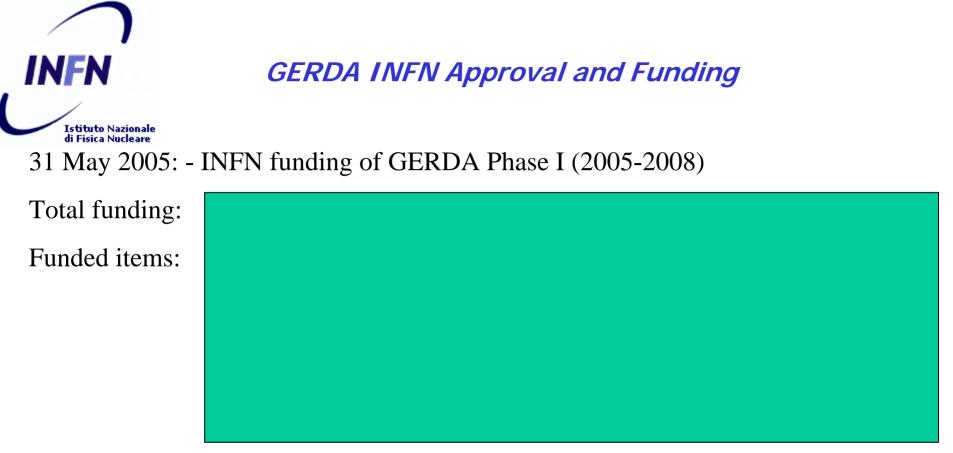


Status of the Water Tank Carla Cattadori

INFN Milano

(on behalf of E.Bellotti, A.Bettini, M.Junker, P.Martella)



Tendering Procedures: - tender can start as soon as cryostat definitely outlined

- public tendering (Time scale shown in last slide)

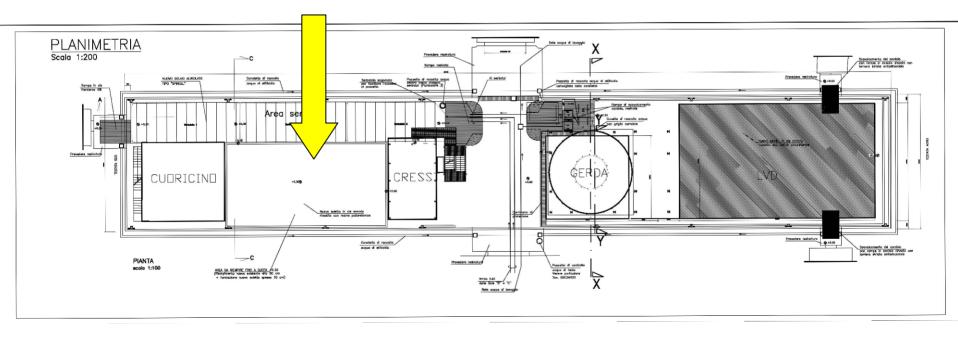
- technical and administrative paper are almost completed. need the finalization of the cryostat project \rightarrow final integration of WT + Approval of the collaboration

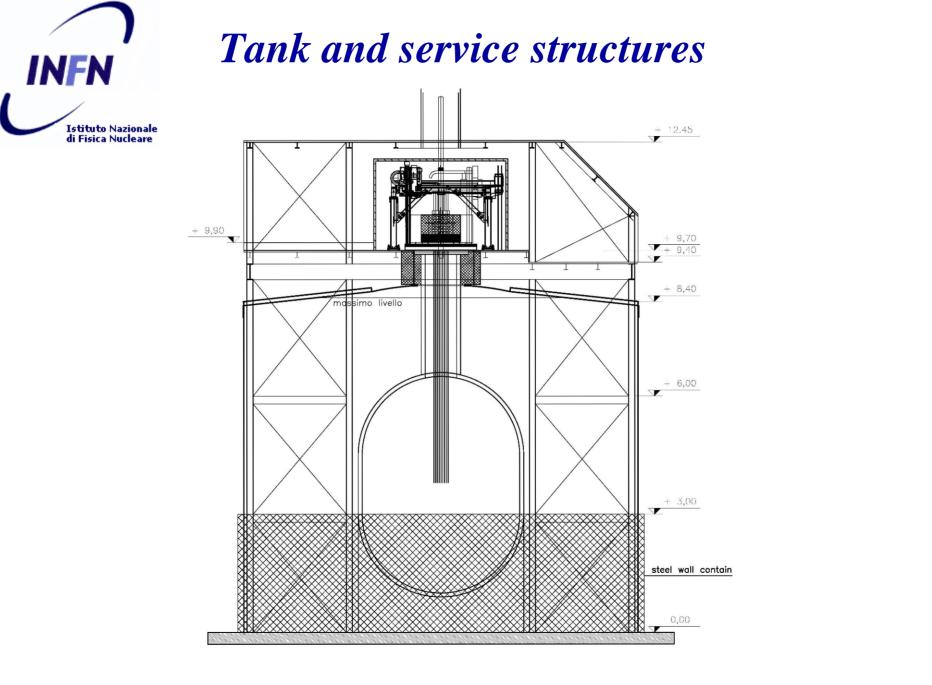
- needed integrated safety review (ongoing).

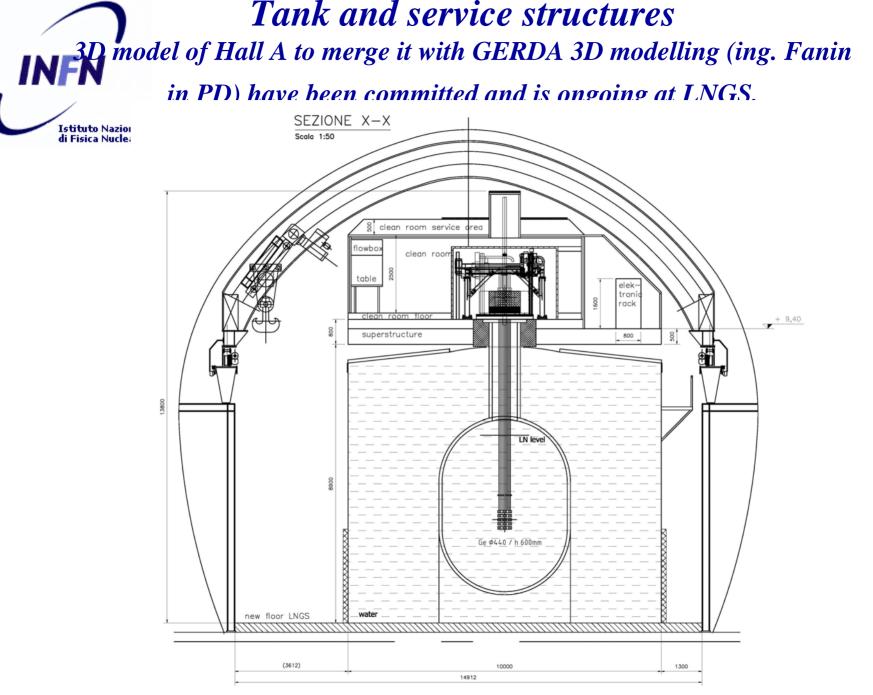


GERDA Location in Hall A

Service space for assembly. Interference with CUORE assembly possible in case of severe delay of GERDA. Cost and building time of Wt and GERDA superstructure+ building strongly depends on the availability of this space



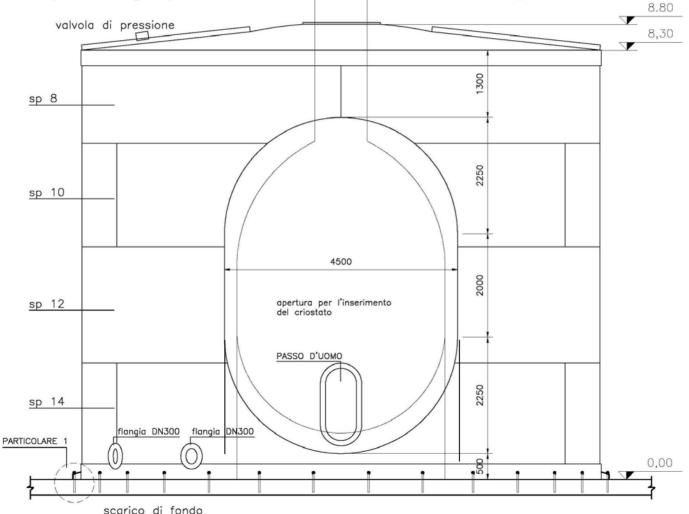


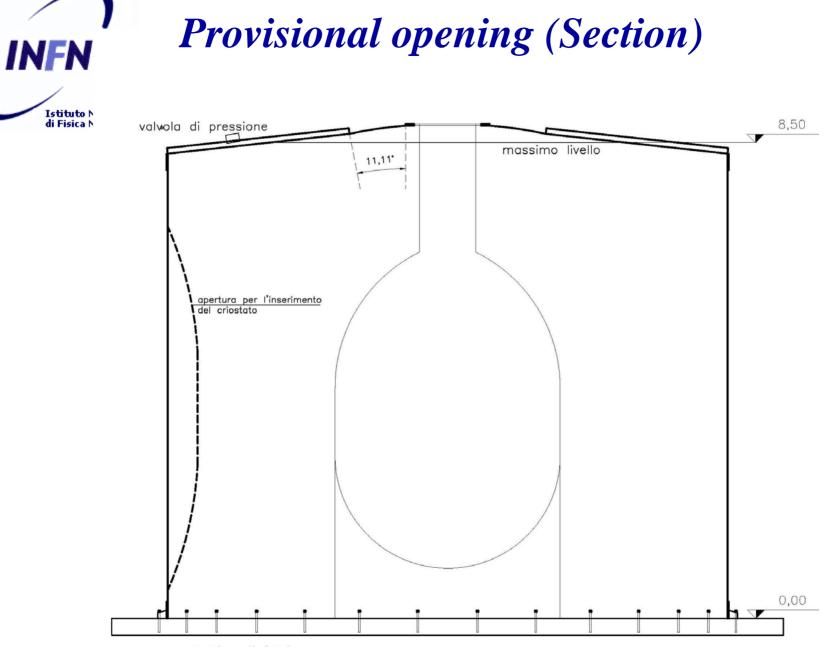


6 July, 2005

The provisional opening

We construction plan foresees to leave a part open (the shape may be that shown or simply rectangular) for insertion of the Cryostat. The construction of the tank will then be completed by final soldering. Work programme will need to know the timing of the cryostat



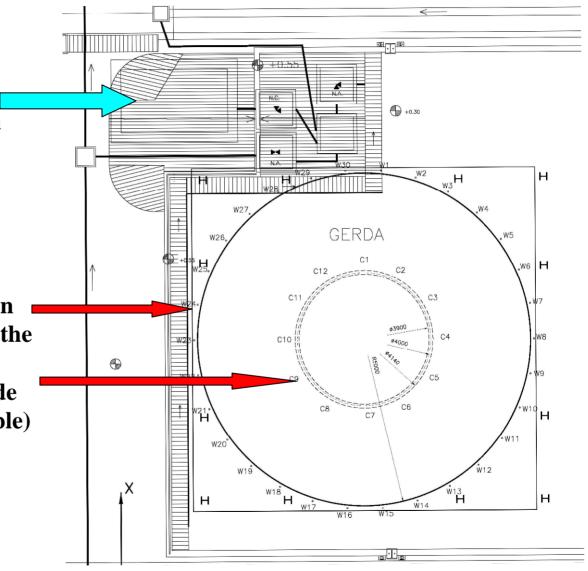


scarico di fondo

Footprint on the floor

The interference with the Commissary civil works shown in the drawing will be solved changing the civil works design

The positions of the fixing pins in the floor both of the WT and of the cryostat must be frozen before summer break (they will be made leaving 20 cm adjustment possible)



INFN

Istituto Nazionale di Fisica Nucleare

Anchorage pins

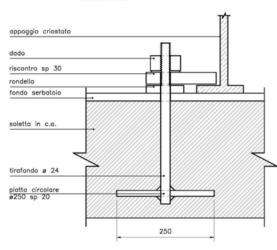
For the Cryostat

Istituto Nazionale

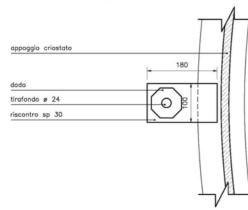
INFN

PARTICOLARE 2 ANCORAGGIO CRIOSTATO Scolo 1:5

SEZIONE

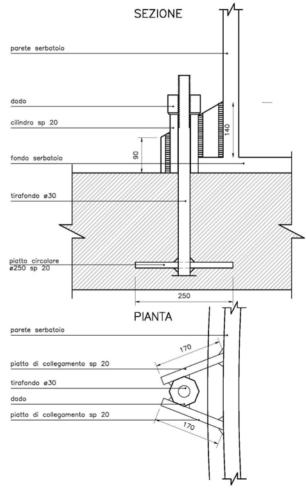


PIANTA



For the Water Tank

PARTICOLARE 1 ANCORAGGIO WATER TANK Scola 1:5





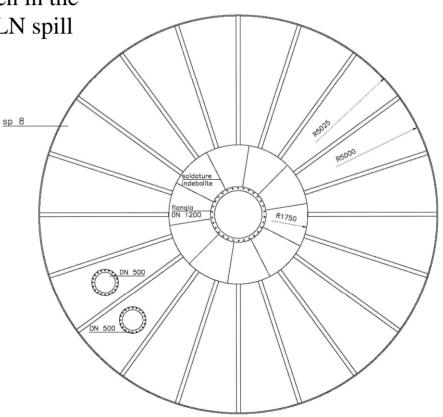
The Roof

PIANTA LIVELLO COPERTURA (a quota + 9,70)

LATO C

In this version weak soldering are foreseen in the central sectors. Should break in case of LN spill in water and consequent explosion

The LNGS request to consider of triple containment of LN may involve a change of this detail Presumably N2 in gas phase escaping from the WT or from the cryostat will be guided to a specially built heat exchanger and then to the exhaust duct foreseen in the Commissary works



LATO A

C.Cattadori. INFN-MI

 \square

LATO

m

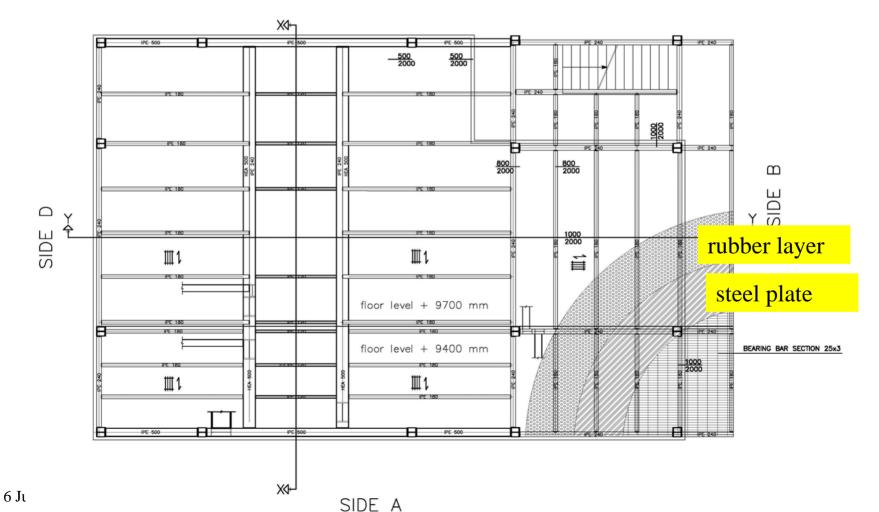
ATO



Plant of the 3rd floor

INFN-LNGS will fund and realise the construction of the service building. This will not include the clean-room construction PLAN FLOOR 3 (level +9400/9700 mm)

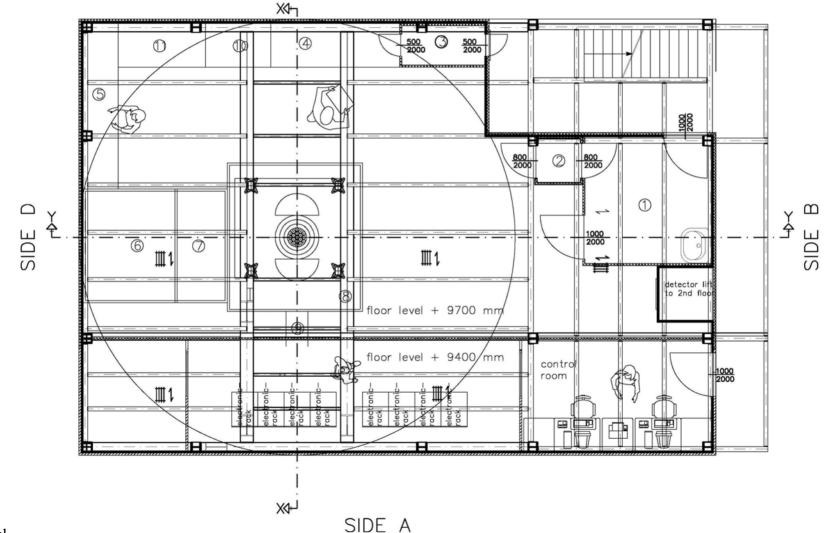




Plant of the 3rd floor

PLAN FLOOR 3 (level +9400/9700 mm)

SIDE C



C.Cattadori. INFN-MI

IN

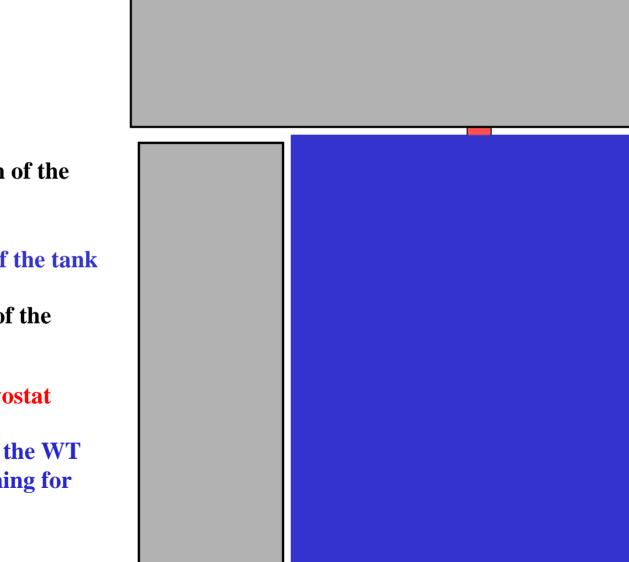
Timing of WT and Structure

NFN Month		ΙΙΙΙΙ		V C					- L				\mathcal{I}	N										
		1		2		3	4	ł	5		6	7		8	9	10	1	1	2	1.	3	14		15
Tank	Engineering																							
Tank	Material Shipping																							
Tank	Work Shop Fab.																							
Tank	Site Fab.																							
Structure	Tendering																							
Structure	Workshop Fab. and Shipm.																							
Structure	Construction (on site)																							
Cryost.	Crystat Insertion																							
Structure	Construction (on site)																							
Tank	Construction (on site)																							
Tank	Test and Approval																							

6 July, 2005



WT&Structure Construction Programme



End construction of the structure

End construction of the tank

Construction of the structure

Insertion of Cryostat

Construction of the WT leaving the opening for cryostat