

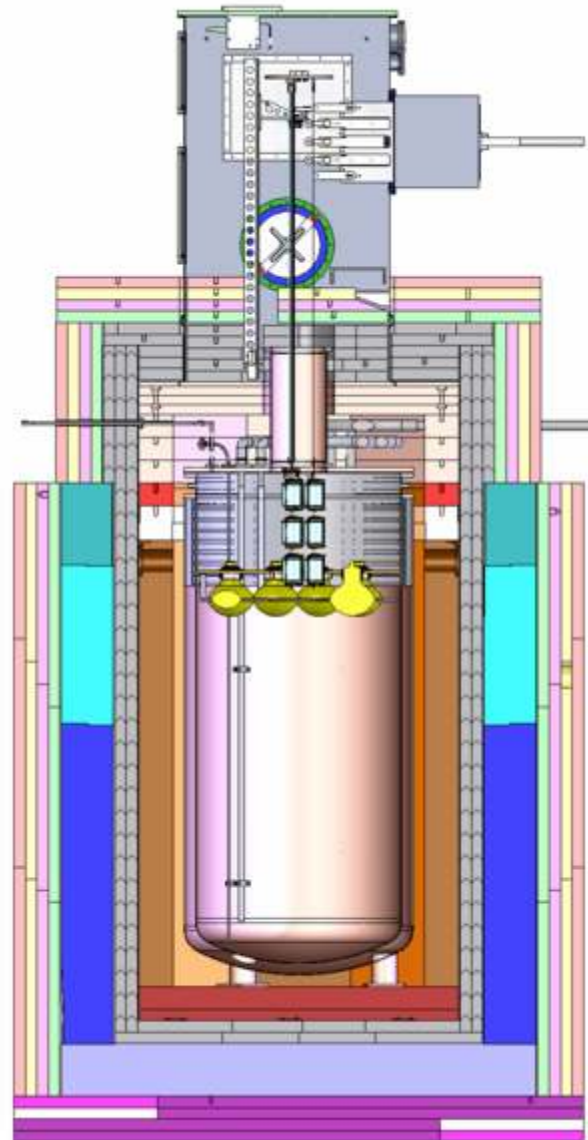
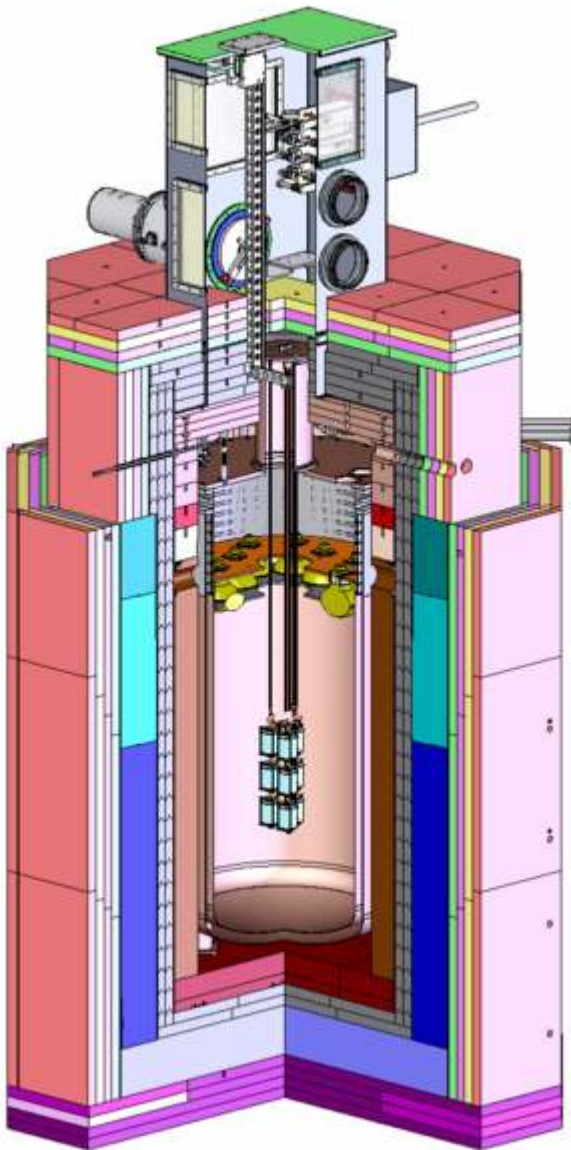
TG1 schedule updated & status and plans of LArGe

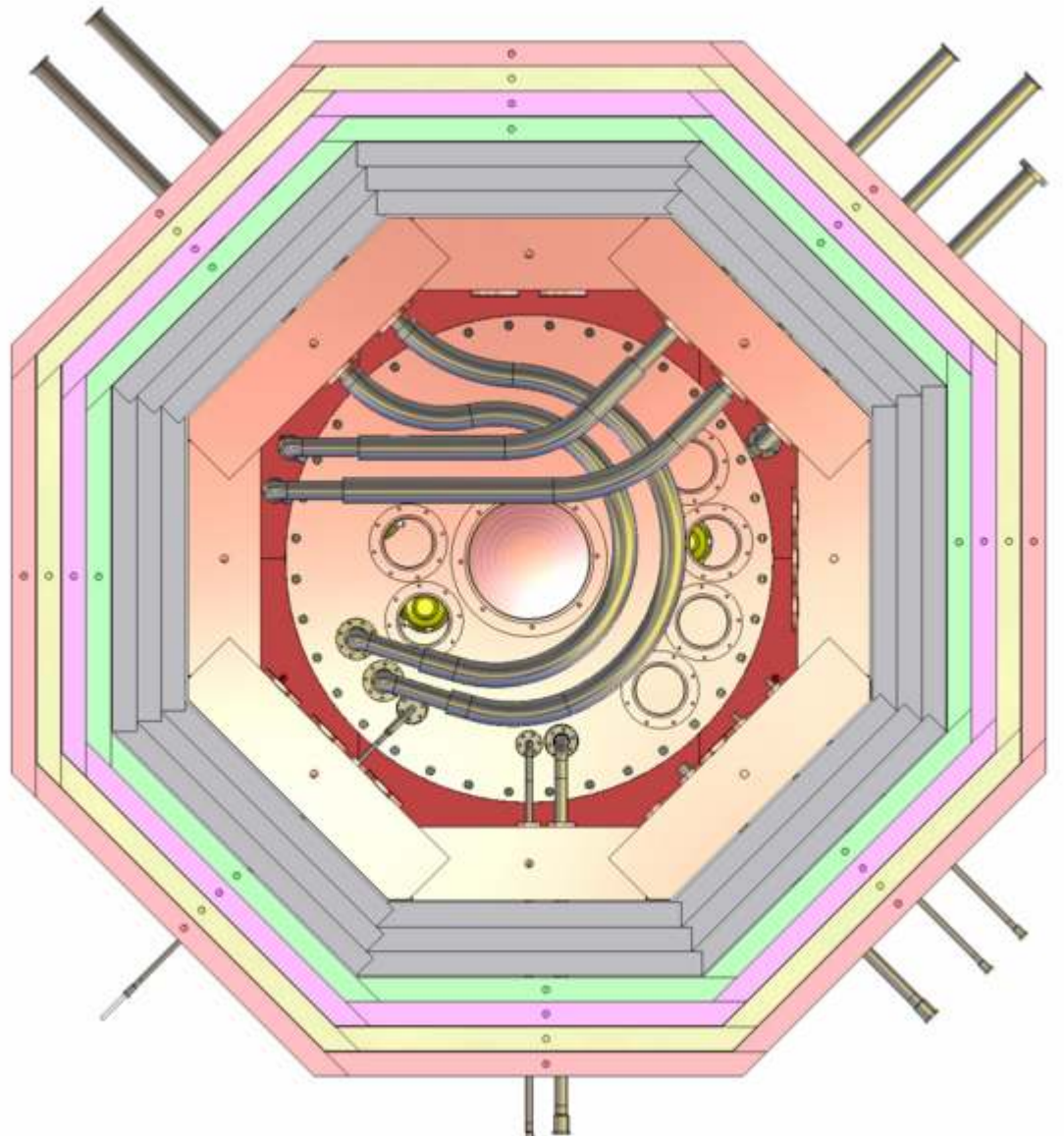
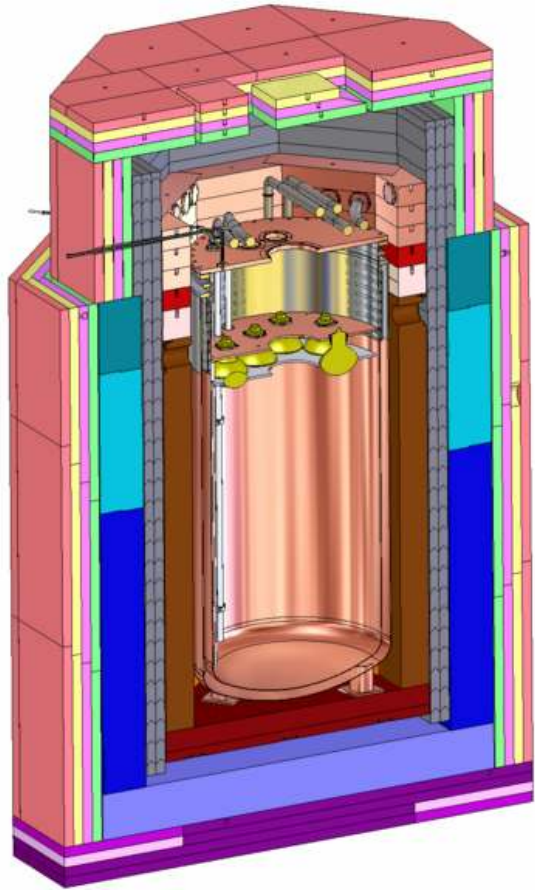
Stefan Schoenert
on behalf of TG1
GERDA general meeting,
LNGS 5-7 Nov. 2007

TG1 schedule update

- Prototype tests in GDL (WP3):
 - Continuation of long term operation of prototype in LAr
 - Operation of 2 GTF crystals with modified passivation layer: Nov/Dec
 - Definition of passivation layer (GDL tests with GTF diodes (Dec.))
- Detector processing (WP4):
 - Reminder: all enriched/non-enriched x-tals ready for implanatation/passivation
 - Completion of processing: Jan/Feb 08
 - Machining (completion) of detector mounts
- LArGe test stand (WP5a):
 - Completion of cryostat: Dec. 07
 - Cryogenic test: Jan 08
 - Integratioin in GDL: Feb/March 08
- Detector tests in LArGe (WP5b)
 - prototype/GTF (non-enriched)
 - If $\text{bgd} < 10^{-2}$ cts/keV/kg/year: operate 1st string with enriched xtals,
 - If successful: operate 3 phase I strings with enriched detectors

LArGe: Low-background test stand











Outer vessel

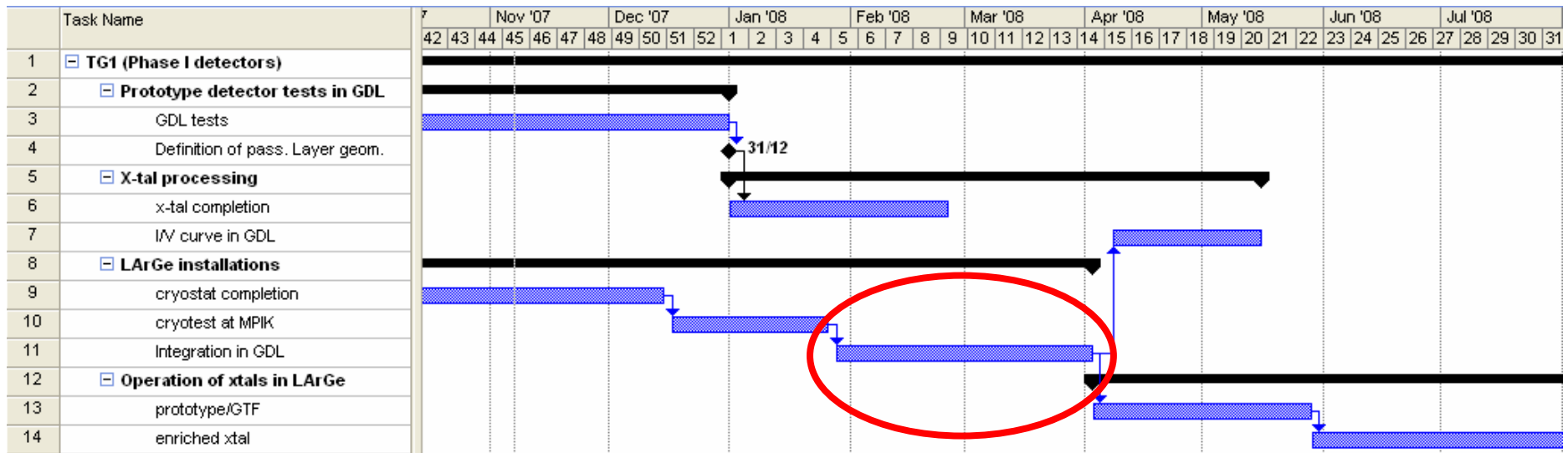
Actively cooled
radiation shield

Readiness

- Cryostat: el. Polishing / pickling and pass / assembly / cryotest
- Cryogenic connection lines: ok
- Charcoal trap: tested (integration !)
- Cryogenic filling/cooling/cooling: design level (!)
- PE/steel/Pb/Cu shield: ok; part of Pb shield missing
- WLS foil: process defined; preparation of large size samples (clean room at LNGS?)
- Voltage divider: design / test completed (screening of capacitors!)
- PMT: ok, final test after volt. div.
- LED VME board: ok
- HV: ok
- Small parts: cables, feedthroughs, sensors, etc. to be implemented (!)
- FE: several available
- Plastic muon pannel: ok
- DAQ integration with LAr PMTs, plastic muon (SIS FADC)

Challenge: timely integration!

TG1 schedule overview: next 8 months



- Start of cryostat mounting: Feb. '08 => end of 'delicate' ops in GDL (FE tests, prototype tests, ...)
- Goal: completion of LArGe integration: end of March '08 (might be too short!)
- Commissioning and startup with prototype: April
 - If $\text{bgd} < 10^{-2}$ cts/keV/kg/year: operate 1st string with enriched xtals,
 - If successful: operate 3 phase I strings with enriched detectors