# TG1: forthcoming activities

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on behalf of TG1
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Detector processing

- Enriched detectors:
  - ANG1/RG3 fully processed and stored underground
  - ANG2/3/4/5, RG1/2 machined, Li-drifted, stored underground
    - Final step: implantation and passivation
    - When? After completion of GDL work (prior to summer)
- Non-enriched detectors (GTF):
  - 2 diodes machined, drifted and implanted (prepared as prototype, c.f. Marik's talk)
  - Other 4 diodes machined, drifted and stored underground
    - Final step: implantation and passivation
    - When? Together with enriched crystals, prior to summer
- Overall exposure to cosmic rays during processing and transportation < 1 weak

Storage and transportation
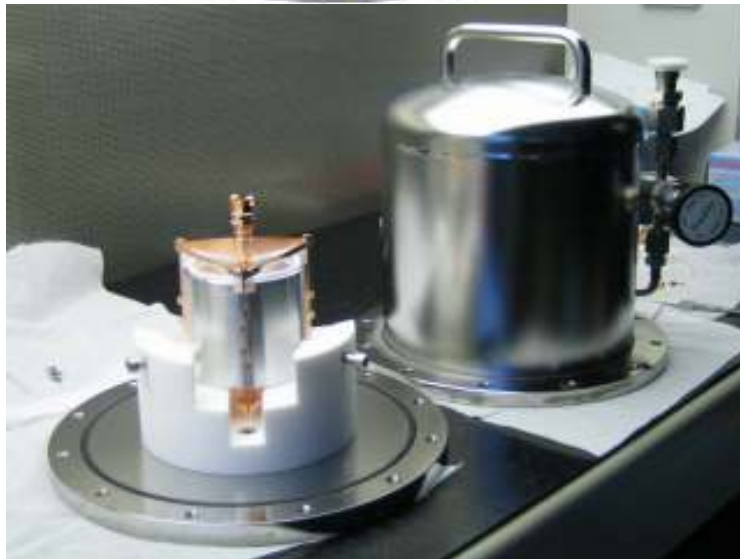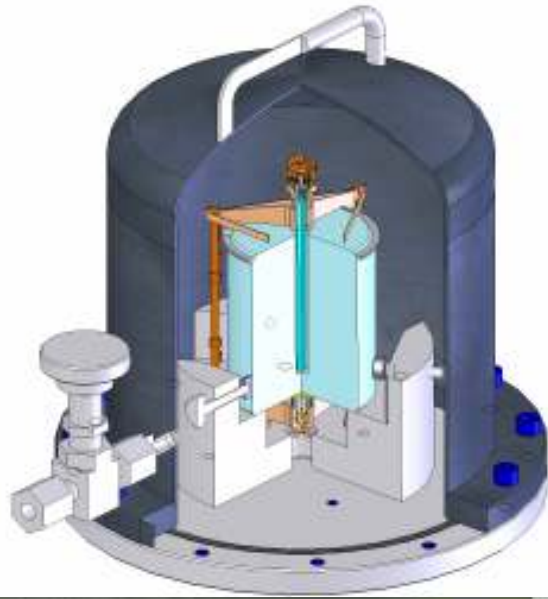
- Diodes stored under **vacuum** in special transportation container
- Sealed with butyl-O-rings or CF-flanges
- Transportation from manufacturer to LNGS by direct courier
- Storage at -30 C available
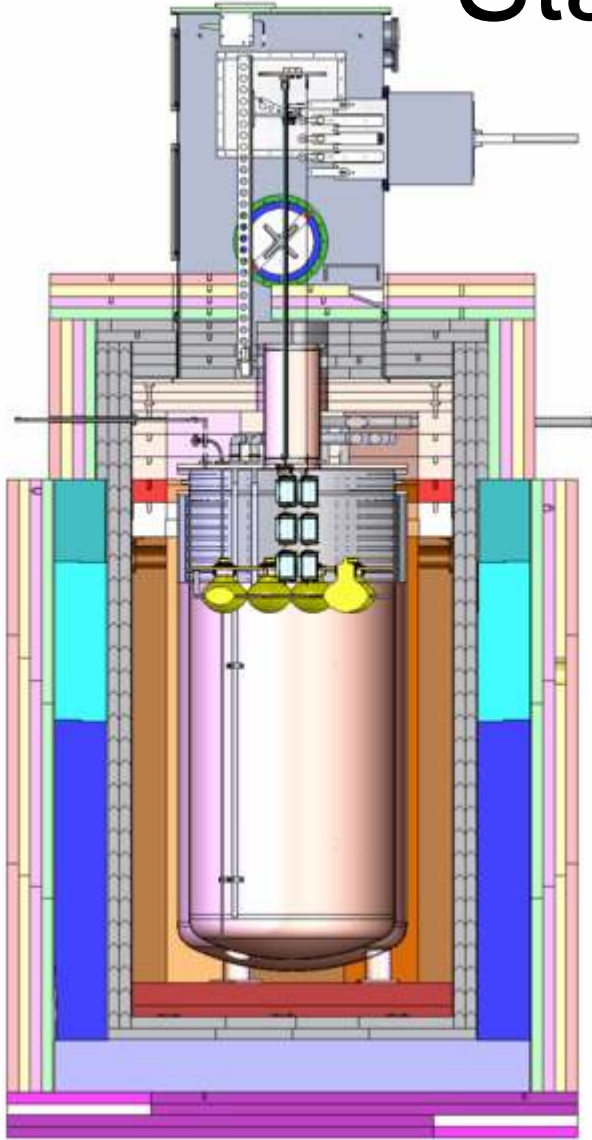
Characterization of Phase I crystals at GDL

Gerda underground detector laboratory at LNGS (GDL)

LArGe:
- Backgrounds
- Resolution
- Operational expierence with Phase I
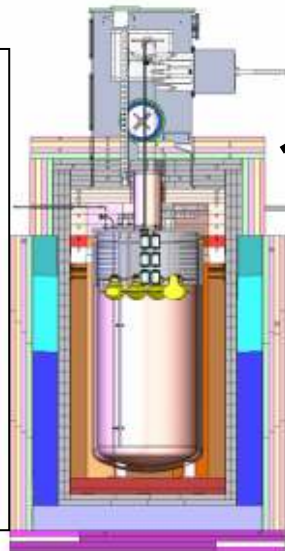
- I/V curve
- energy resolution

Status of LArGe

hardware components available (shield, lock, cryogenic lines, PMTs, etc.)

Final assembly of cryostat planned for Jan/Feb, but …

Surface treatment and cleaning
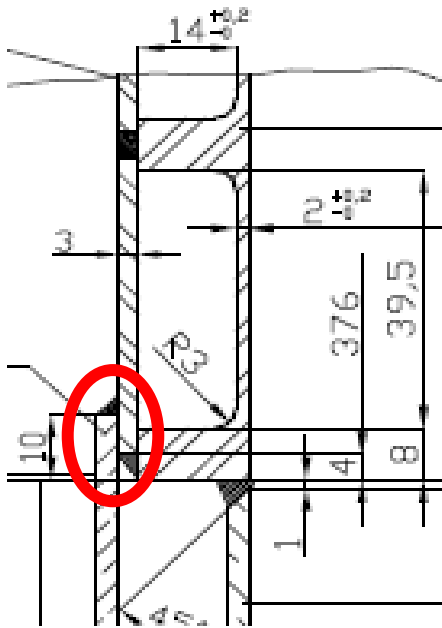

Welds grinded and el. Polished $\Rightarrow$

Outer surfaces: pickling and passivation

Inner surface: electropolished…

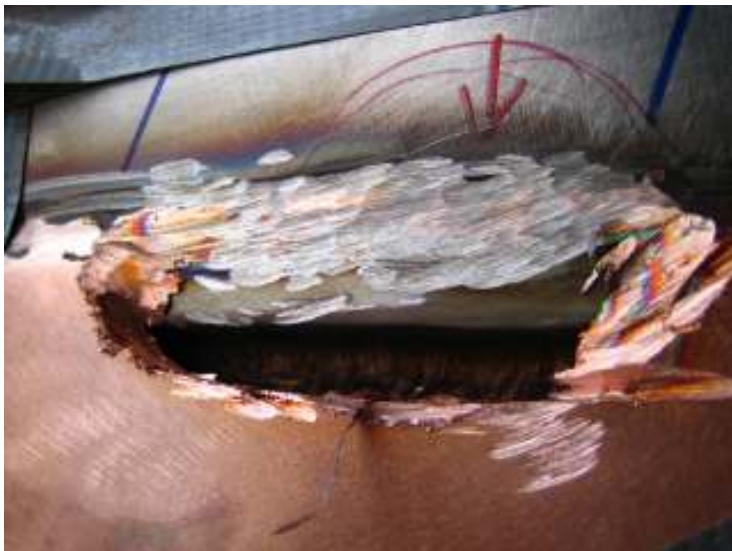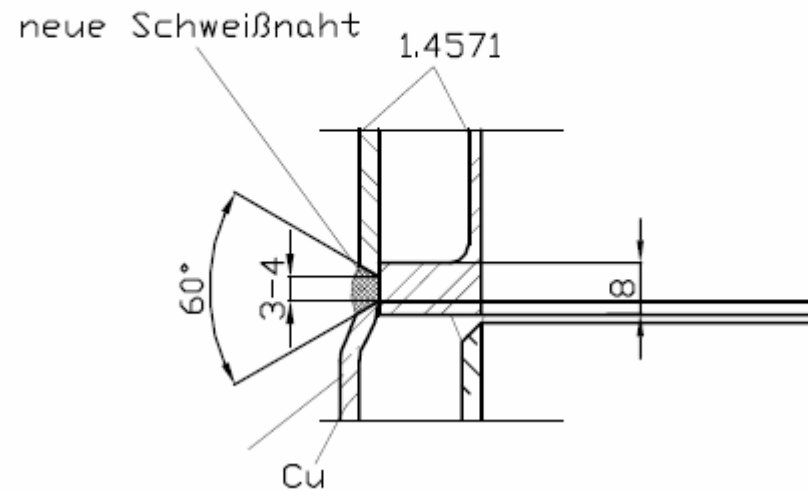…. but quality of surfaces not as achieved in test samples. Additional grinding and acid wash required.

Leakage at cryostat neck

Repair:

Cryostat returned to manufacturer for repair work Feb. 15
Repair work and leak tests to be completed within next few weeks

Outlook

- LC measurements at GDL in final phase
- Subsequently: decision on final passivation layer geometry
- Completion of crystal processing
- Integration of LArGe in GDL will start after successful repair work and cryogenic test
- Goal: commissioning of LArGe in summer
- TG1/TG3/TG9 integration: Phase I detector + FE + FADC