



**Some final remarks or
rather an eclectic summary**

Next LNGS SC meeting

- The SC congratulates the collaboration on the progresses achieved in the construction of the cryostat and was pleased to note that a new group from Zurich joined the collaboration. **The SC noted the delay associated with the Cryostat construction and additional delays in producing the Phase II enriched Ge detectors.** The SC is concerned that the schedule for Phase II continues to fall behind. In this respect the SC urges the collaboration to work out a joint schedule with the Laboratory management and a plan with funding agencies to ensure the availability of the necessary resources to procure the Phase II segmented detectors. **The SC asks the collaboration to present a detailed status report at the next meeting (April 2008).**

Preparation of LNGS SC report:

- March 14: early deadline for TG reports because of Easter holidays
- March 28: submission of progress report
- April 14-16 LNGS SC meeting

New activities: Slow control and calibration

Design of the GERDA Slow Control

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Università degli studi di Padova, and INFN

February 18, 2008



A Garfagnini (Padova Uni, and INFN)

GERDA Coll. Meeting - Krakow

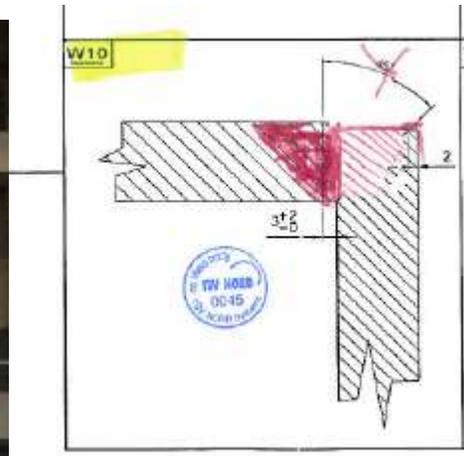
Overview Preliminaries Boundary Conditions **Simulations** Teststand

γ Sources

- ^{228}Th and ^{60}Co sources, capsule A3029 (M4 thread), 100 kBq
- ^{57}Co capsule A.3224, and ^{137}Cs capsule P02, 74 kBq
- All encapsulated from Eckerd & Ziegler, IP Berlin

Francis Froberg Status of Calibration

Welds!



← Not (yet) certified!

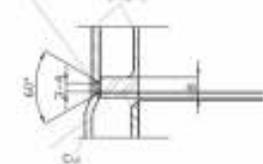
Not (yet) tight!

↓
And the little brother...



Repair: Variante I

neue Schweißnaht (L457)

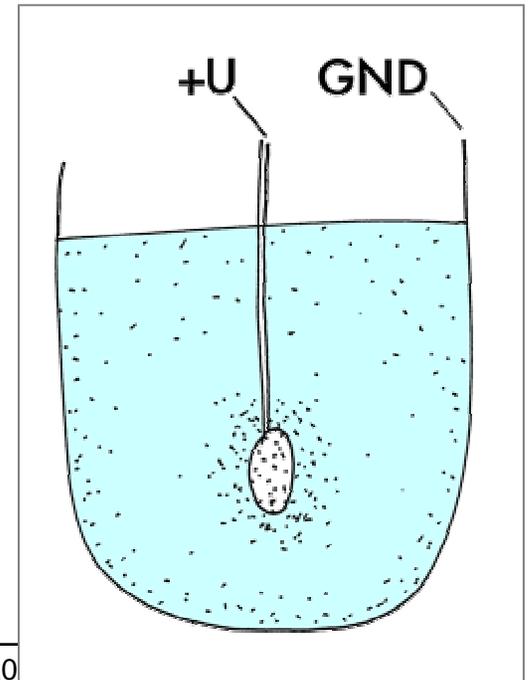
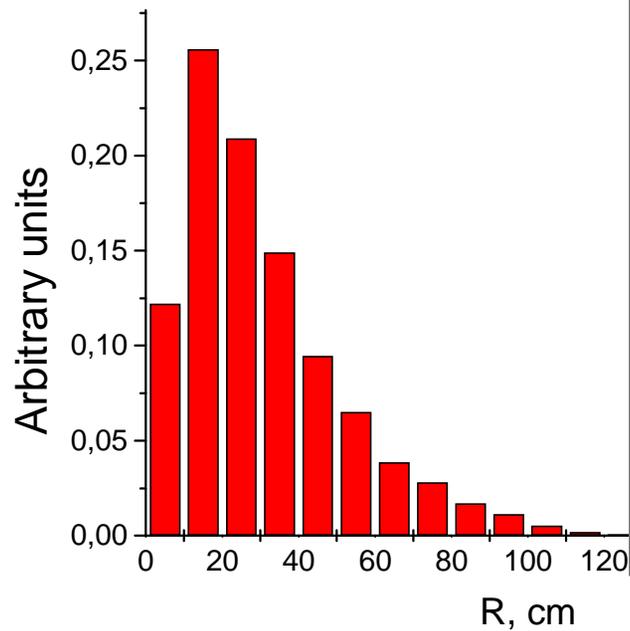


Cryostat returned to manufacturer for repair work Feb. 15
Repair work and leak tests to be completed within next few weeks

Radon and it's antiques...



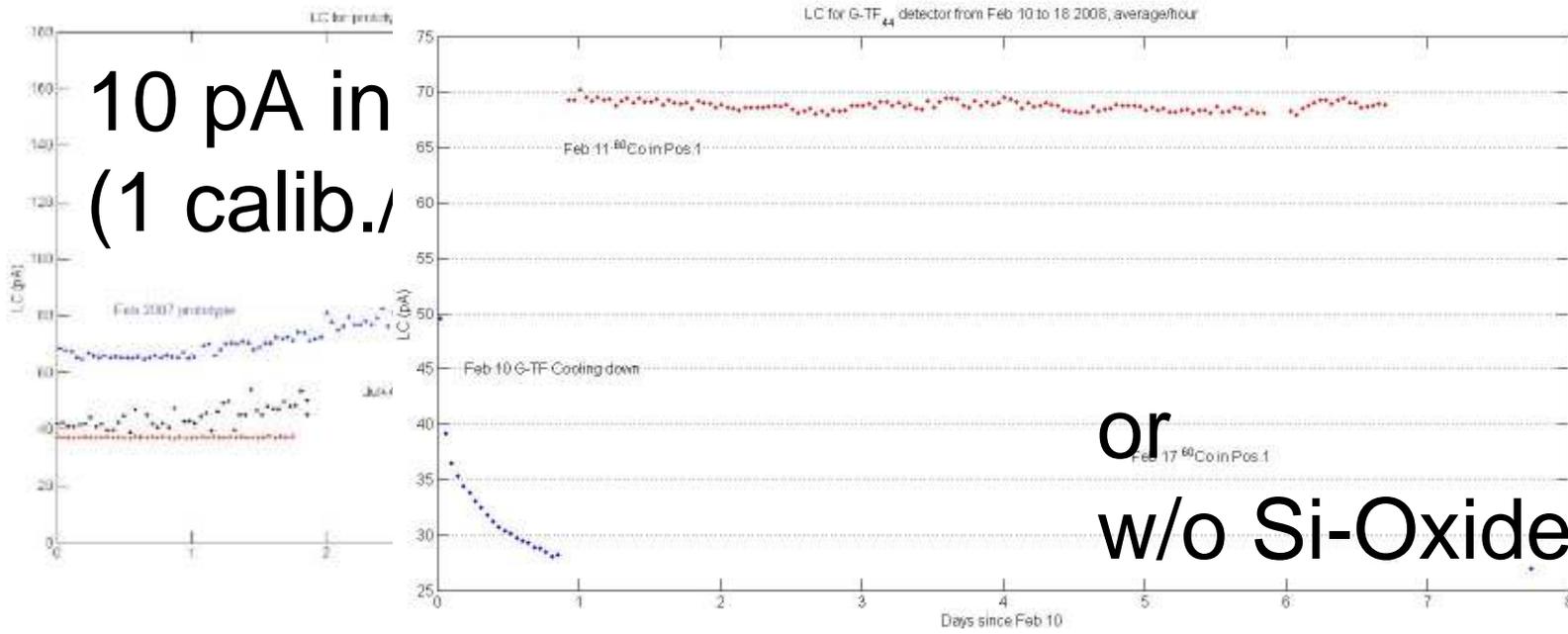
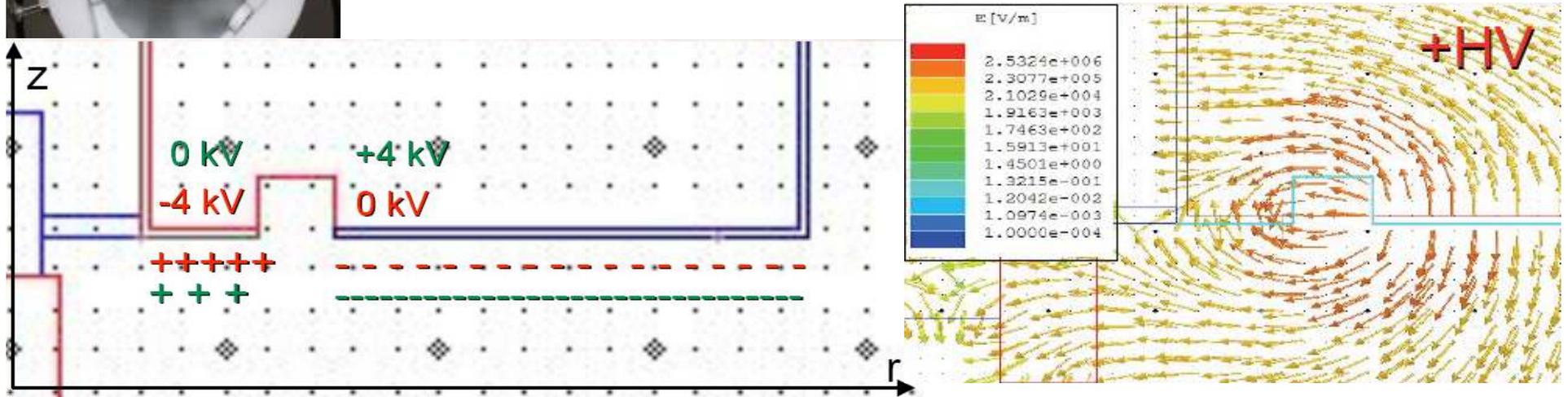
^{222}Rn activity assuming
homogenous mixing: **17/30 mBq**
 10^{-4} cts/(kg·keV·y) \leftrightarrow ~ 8 mBq



Rn/ion sweeper required ??



γ -induced leakage current



10 pA in
(1 calib./

or
w/o Si-Oxide?

Phase II crystals



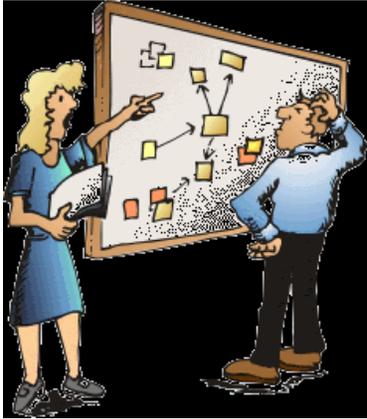
Summary



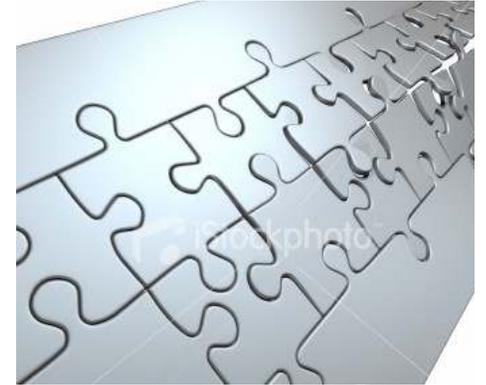
Since the last collaboration meeting:

- Total yield of 6N (or better) material of **90%** was achieved during ZR
- Test crystal successfully grown from ZR material for Hall-effect and PTIS measurement
- Purity achieved so far (only with ZR) 10^{12} impurities/cm³
- Third purification test is planned (depending on the PTIS results)
- Progress has been made with the preparation of the Czochralski puller: first crystals expected in a few weeks





Integration...



The Sub & FE:



**Bardzo Dziękuję
to
Marcin and his Cracow team!**



GERDA Collaboration Meeting
Jagiellonian University in Kraków, 18th-20th February 2008

