

GERDA Collaboration Board Meeting  
28-9-2009, LNGS

1. Approval of Agenda
2. Approval of Minutes from previous meeting
3. News
  - follow-up on discussion to be recognized as Recognized Experiment for the European Strategy
4. Updates on finances:
  - a. Author list & cost sharing: P. Grabmayr
  - b. status of common fund: M. Junker
5. Rules for Analysis: P. Grabmayr (Discussion)
6. HdM tests – goals ? When to move to Hall A (schedule)
7. Safety review from LNGS
8. Location of electronics
9. Inauguration & end of construction
  - a. Dates
  - b. Organizing committee
  - c. Activities
  - d. List of invitees
10. Dates & Locations of upcoming meetings

Jan 13-15	LNGS meeting + party
Mar 1-5, 2010	LNGS meeting (possibly only tech meeting)
Spring 2010	Inauguration
May 26-28, 2010	Dresden
11. AOB

From C. Spiering, S. Stapnes

... the CERN Council has taken as extended European role, beyond the CERN Organization, building up a European Strategy for Particle Physics. One part of the present efforts is to define a catalog of experiments that could be recognized as part of the European Strategy, considered particularly relevant for its practical implementation and for further development of European Particle Physics. These projects/experiments will be referred to as European Strategy Projects or Experiments (don't confuse this with the CERN recognized experiments. The EPP status is much higher) ...

In the course of these discussion we are going to start this process with recognizing a first set of four experiments, one of them being GERDA. One condition for an experiment to be part of the European Strategy is that the corresponding collaboration clearly desires to be so considered. For some funding agencies, notably those represented in the CERN Council, the recognition of an experiment as part of the European Strategy brings the status of the experiment more a la par with those taking place at CERN, which is one of the motivations of this initiative. Once the experiments are in the European Strategy they should be followed by the Secretariat, to inform the Council of their progress once a year. In general this is a light procedure, meant to highlight and follow the progress of experiments where we consider the European participation particularly relevant and important; scientifically, technically or strategically. It is therefore also likely to have a positive impact on the experiments and possibly also on the European support for the experiments, as it represents a recognition of European importance and priority, also with respect to the future plans of the experiments.

Dear Steinar, Dear Christian,

Thank you for explaining the process of to us and answering our questions on the pros and cons. We have now had the chance to discuss the designation of GERDA as a Recognized Experiment for the European Strategy within the management of GERDA. We are certainly appreciative of such a recognition by the CERN council. The conclusion from the management is that we would indeed accept this recognition, and are grateful for being considered in this initial round. The contact person in these matters should be the collaboration spokesperson; currently, this is Stefan.

We should however also point out that there was general concern about the developing centralization of particle physics as well as astroparticle physics policy through CERN. Many colleagues see this as an unfortunate development and are concerned that such an approach will disfavor smaller projects and new, original ideas, and would favor more discussion before this takes effect. Is this still possible ? As a side remark, we point out that it seems the community is not well informed about these developments and this could lead to a backlash unless the procedures are explained. Perhaps the best way would be through presentations at international conferences. In any case, we wish you the best in this endeavor.

Best Regards,  
Stefan Schoenert, Allen Caldwell

4. Author list was updated on-the-fly during the CB meeting. Sufficient resources have been accumulated in the common fund for the purchase of the first fill of LAr. Future needs for the Common Fund to be worked out for the next Collaboration meeting. GERDA will designate a responsible person(s) for the management of the cryo plant.
  
5. Discussion started on rules for analysis, data processing, ... A team has been formed (P. Grabmayr, B. Schwingenheuer, R. Brugnera, C. Ur, L. Baudis) to prepare for data analysis. Topics included are –
  - storage of data (how many copies, where)
  - Types of data (raw, validated, calibrated)
  - Rules for analysis (blinded region, multiple analyses, open software, specific analysis platform such as root)
  - Other data forms (Calibration, MC)
  - Other topics as they come up.

# first thoughts about analysis



- ▶ Analysis should be done by every group
- ▶ Results - also intermediate – must be agreed on by collaboration  
(no result analyzed by a single group may go out)
- ▶ Work within a common frame, ROOT suggested
- ▶ Define a data format for (listmode) storage of intermediate / physical / calibrated data
- ▶ Have the macros / subroutines / functions available for exchange between groups
- ▶ Go for a blind analysis
  - a) blind range:  $f(E_{ee}) = 0$  for  $E_{ee} \leq |Q_{\beta\beta} \pm 30 \text{ keV}|$
  - b) reduced statistics ( $\sim 30\%$ )

prefer a) : more stimulating, full stats for bg peaks, calibr

6. Goals of HdM tests + schedule:
- Run two detectors on one string
  - Achieve a good resolution (as far as allowed by HdM conditions)
  - Operate together with Phase I DAQ system
  - HdM limitations do not allow for long-term stability tests
  - Glove box needed in Hall-A for installation of commissioning lock
  - Schedule: aim to move glove box to Hall A in mid November; followed by installation of lock. Then tests of lock system, cleaning the clean room, ... If all goes well lower detectors this year.
  - We want to invite younger collaborators to participate in these commissioning tasks. Group leaders will be contacted once organization agreed on.

7. Safety review with LNGS will take place afternoon of 30.9. Response of GERDA to list of questions were discussed. No showstoppers are foreseen.
8. Not discussed
9. End-of-construction party date fixed (Jan 15). No discussion on inauguration.

## Agenda of meeting on 30<sup>th</sup> September, 3:30 pm, Occhialini room:

- 1) Safety & control systems: status of works, mangement of system.
- 2) GERDA exhaust gas heater: commissioning, functionality, and water supply.
- 3) Connection between GERDA heater and LNGS ventilation plant:status.
- 4) Shift & personnel during cooling down operations? Shifters or on call persons during GERDA start up and data taking?
- 5) Safety procedures in case of seismic event: emptying of water tank automatically or only in case of pressure/temperature alarms.
- 6) GERDA – laboratory drainage water plant: test of the system, installation of an additional automatic valve to the available manual valve?
- 7) Integration of all safety plants (GERDA & LNGS) and procedures: test and commissioning before water filling.
- 8) Seismic analysis: integration off all parts in a single one.
- 9) Management of 40t crane in hall A.