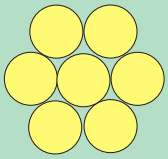
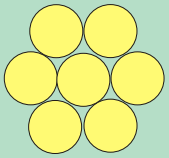
GERDA

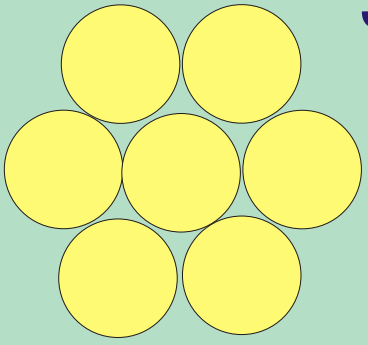
GERmanium Detector Availability





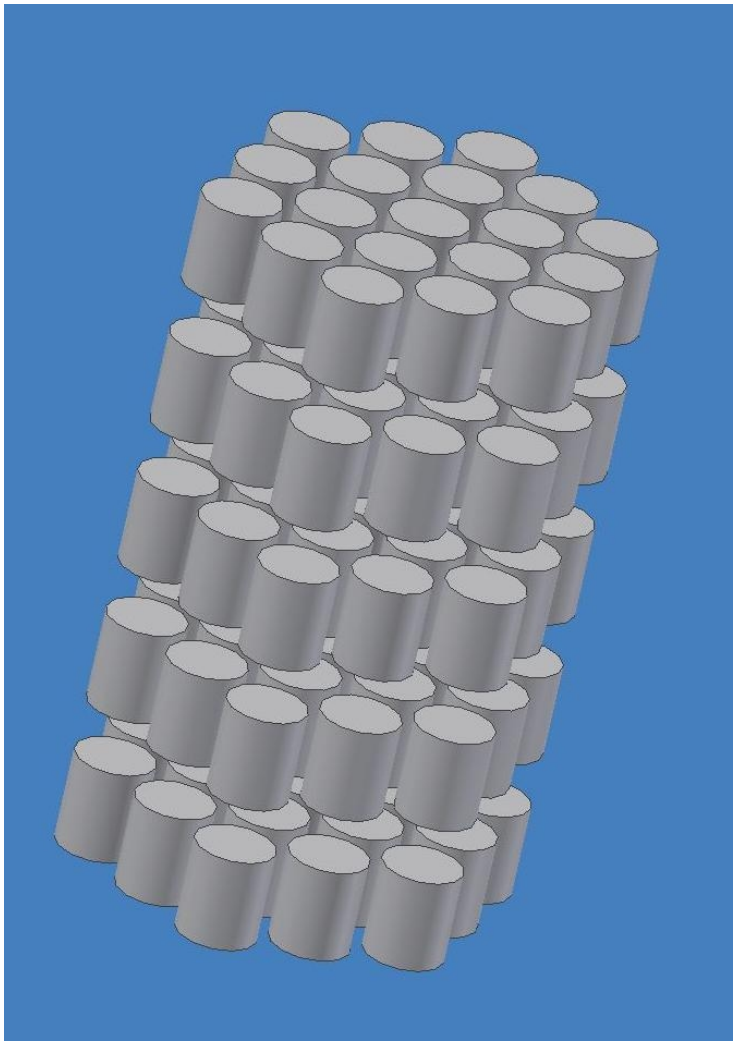
I.Abt
MPI für Physik

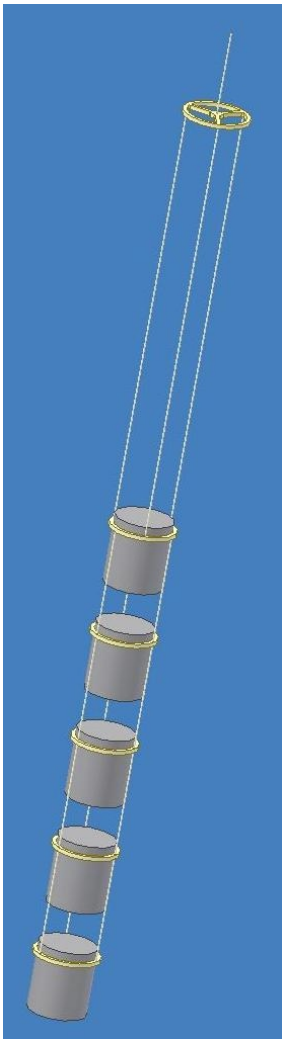
Dubna
June 2005



Detector Suspension

Phase 2:
7 strings with 3 detectors each.
Can be exchanged individually.





Siemens Lufthaken would be nice!

Holders have to be adjusted to detector technology

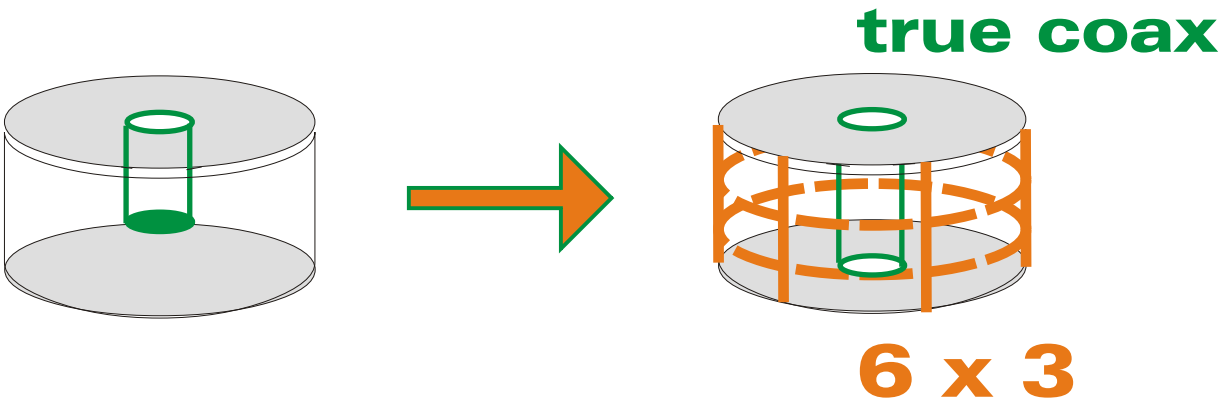
Germanium Detectors

Phase 2:

New detectors from 85% enriched germanium.

true coax

segmented



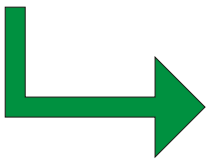
n-type or p-type:

Two technologies, two companies

p-type

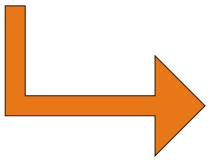
Prototyping:

true coax
6 fold phi } available
6 phi x 3 z [new for the company]
[on order]



Cold LN Teststand:
Operation will start after this meeting
[Some extra care concerning warm-up]

Segmentation is a rather brutal technology



Expect problems with dead zones and pulse-shapes

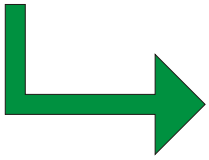
n-type

Prototyping:

naked crystal **[available]**

6 phi x 3 z **[on order]**

[second to be ordered soon]



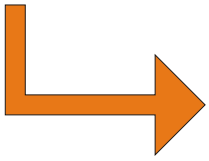
Cold LN Teststand:

in Operation

First Spectra taken

[Probably work on shielding needed]

Segmentation is a rather delicate technology



R & D on
contacting/bonding
kapton gluing/taping
support

Expect complete prototype of detector unit by end of the 2005.

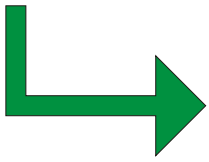
Summary

Detector design available for n- and p-type.

Operated naked n-type crystal in LN.
Working on complete detector unit.

Suspension available for both kinds of detectors.

Expect better performance of n-type crystals.
Getting ready to test it.



X. Liu