



Next Steps



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reminder



		mass [kg]* (total/FV)	FWHM [keV]	background& [cnt/t yr FWHM]	$T_{1/2}$ limit [10^{25} yr] after 4 yr	m_{ee} limit [meV]	
Gerda II	Ge	35/27	3	5	15	80-190	
MajoranaD	Ge	30/24	3	5	15	80-190	
EXO-200	Xe	170/80	88	220	6	80-220	
Kamland-Z	Xe	383/88 750/??	250	40 ?	20	44-120	
Cuore	Te	600/206	5	300	9	50-200	
NEXT-100	Xe	100/80	17	30	6	80-220	
SNO+	Te	2340/260	190	60	17	36-150	
nEXO	Xe	5000/4300	58	5	600	8-22	
Ge-200	Ge	200/155	3	1	100	35-75	
Ge-1000	Ge	1000/780	3	0.2	1000	10-23	

Ge has best discovery potential



history



Majorana & GERDA have information exchange & cooperation (LOI) since >10 years

- common understanding that ton scale experiment should be based on experiences from both experiments, from the very beginning: **use best solutions from both approaches**

we have seen where strengths of the different experiments are

- we are now at a stage where the next steps should be initiated
 - form a new collaboration with new members

seen today that there is a big potential of different skills and knowledge from the different groups



science



we had discussions on next steps during this meeting (not finished)

- basic idea: try to measure all energy depositions for background reductions
- first stage: ~200 kg for implementing new ideas & exploring 10^{27} yr, need big step towards final background goal, proposal: exploit GERDA infrastructure
- final experimental setup for ~1000 kg: prepare proposal for US “down-select” in 2018



next steps



before: periodic phone calls for steering group + email exchanges
collect feedback: interest, level of involvement, ...
more interested groups to contact
how do we refer to ourself? NG-Ge?
plan to present a poster at Neutrino 2016 conference

date + place: September?

goal of next meeting:

- this workshop was intended for general information
→ next meeting should address interested groups
- form a collaboration
- WBS level 2 organization
- first task assignments
- governance issues



Organization



Need subgroup of people to organize upcoming communication until collaboration is formed → new structure,

proposal: build from group that has coordinated joint meeting, open to add interested people

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next meeting



Possible meeting dates:
26-29 September

Possible Location:
major hub in US, e.g. Atlanta, Chicago



expression of interest



plan: want to solicit from everyone in preparation for the collaboration forming meeting information about

- interest on WBS items,
- level of involvement,
- funding/contribution,
- time line

in the next couple of months



other topics for discussion?



Questions or comments?