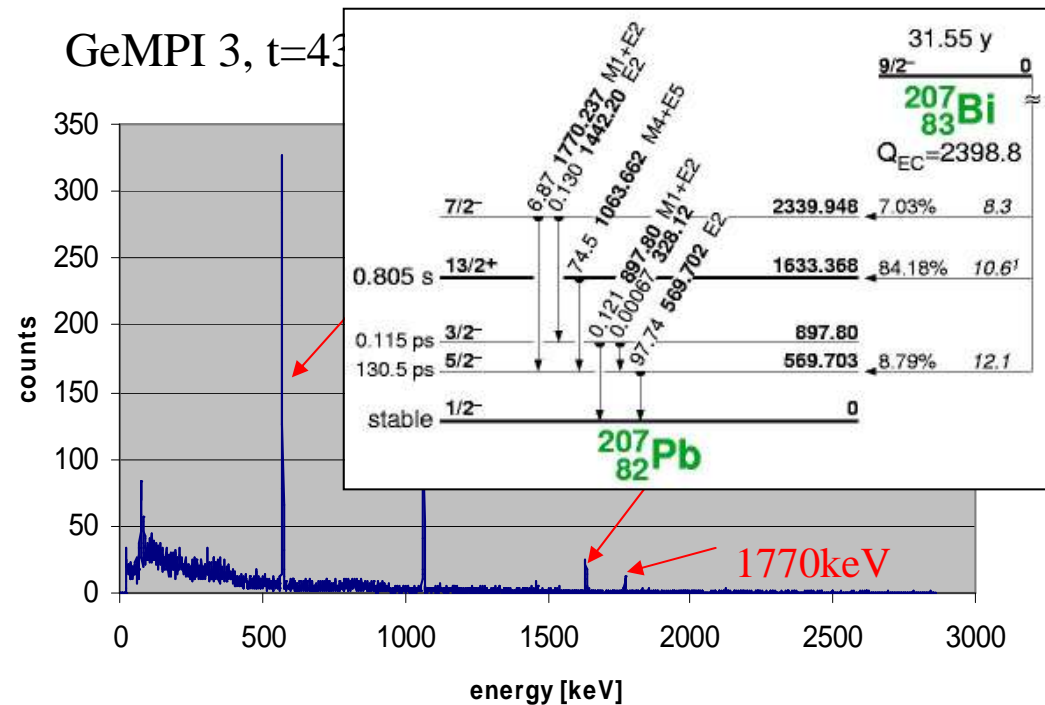
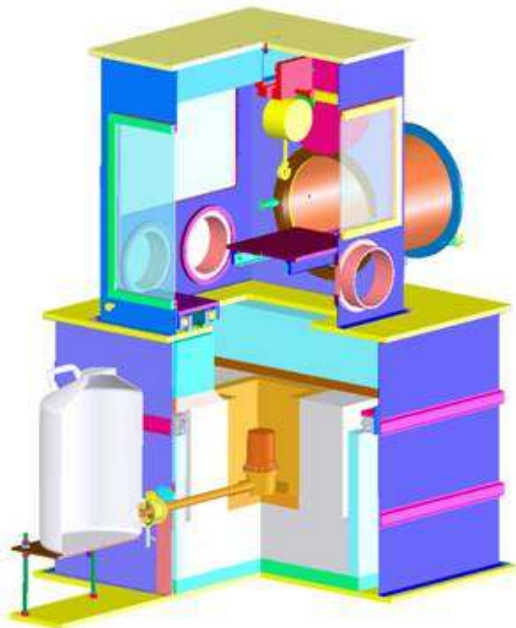


Update on GeMPI 3 & 4

Timeline:

16.01.-01.02.2007 GeMPI 3 inserted into shielding (provisional Rn-flushing)
 → discovery of ^{207}Bi contamination



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17.07.-31.07.2007 dismounting, cleaning and re-mounting of GeMPI 4 cryostat
→ setting it up in former Ang5-shielding (HdMo)

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Spectra:

31.07. – 9.0 days of counting (first day affected by ^{220}Rn)

10.08. – 6.0 days of counting

power breakdown → UPS failure leads to loss of HV of the detector

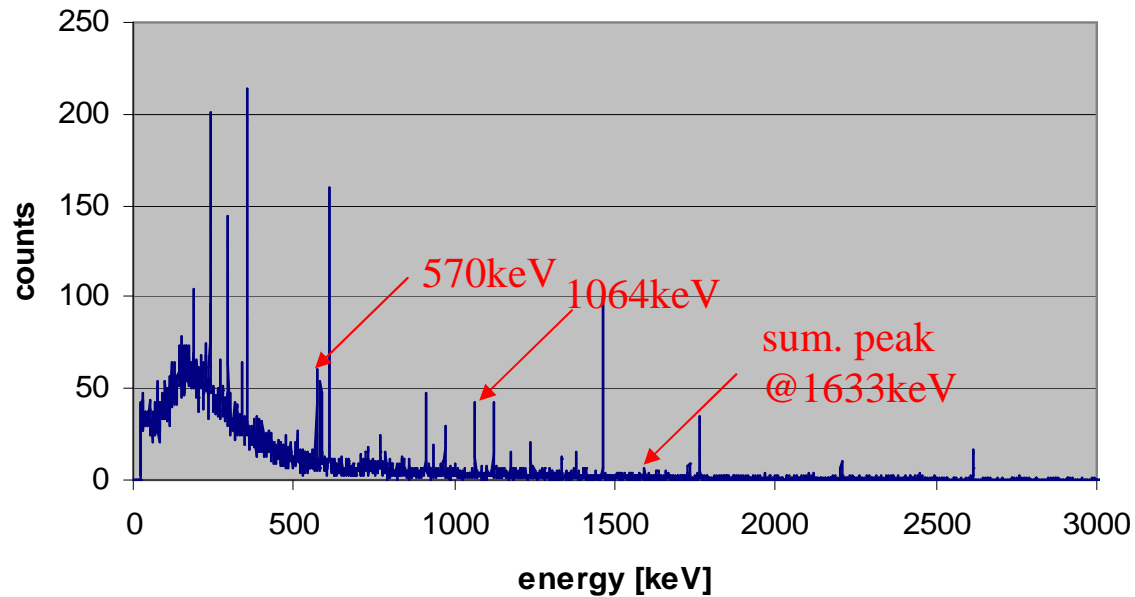
battery of portable DAQ system repaired in September

20.09. – 13.0 days of counting (DAQ seems to have some problems)

03.10. – 9.3 days of counting

Update on GeMPI 3 & 4

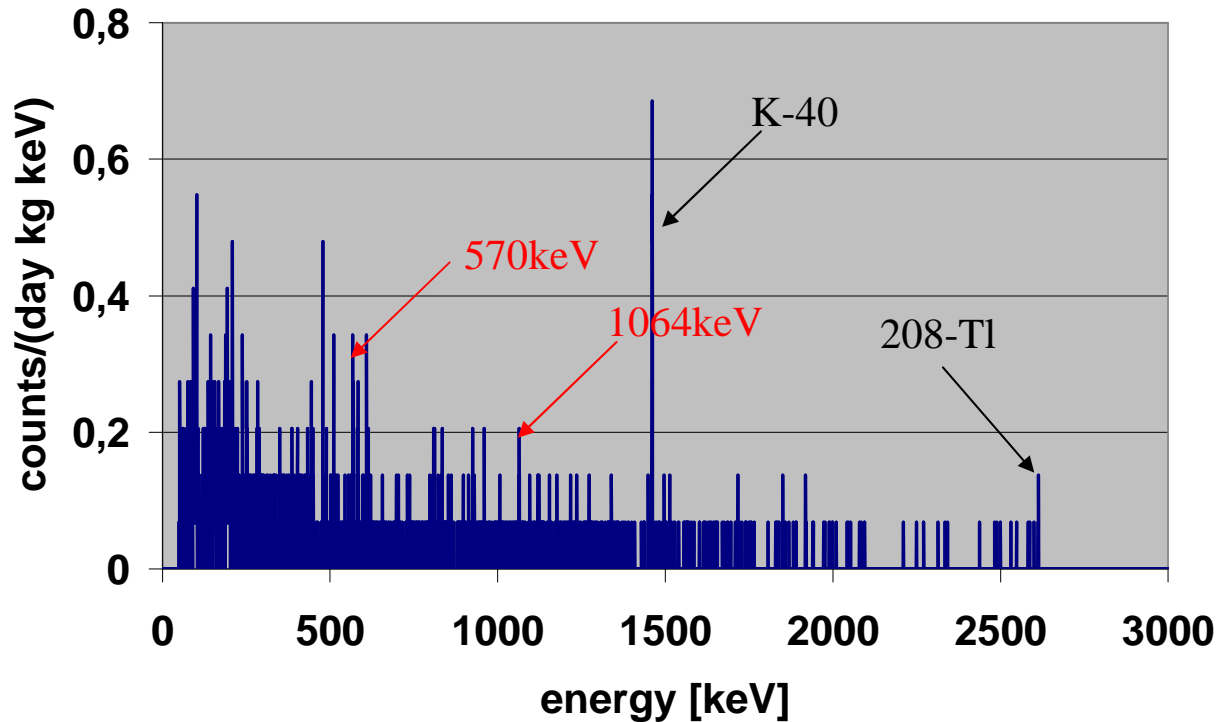
GeMPI 4 before cleaning-operation: (32.4 days)



E[keV]	I_γ	GeMPI III		GeMPI IV - before clng.	
		[cts/d]		[cts/d]	
569.7	97.7%	40.60	+ -0.99	3.92	+ -0.57
1063.7	74.5%	21.49	+ -0.72	3.52	+ -0.42
1633.4	0.0%	2.70	+ -0.26	0.42	+ -0.18
2614.5	35.6%	0.11	+ -0.06		
583.2	30.4%	-0.07	+ -0.24		

Update on GeMPI 3 & 4

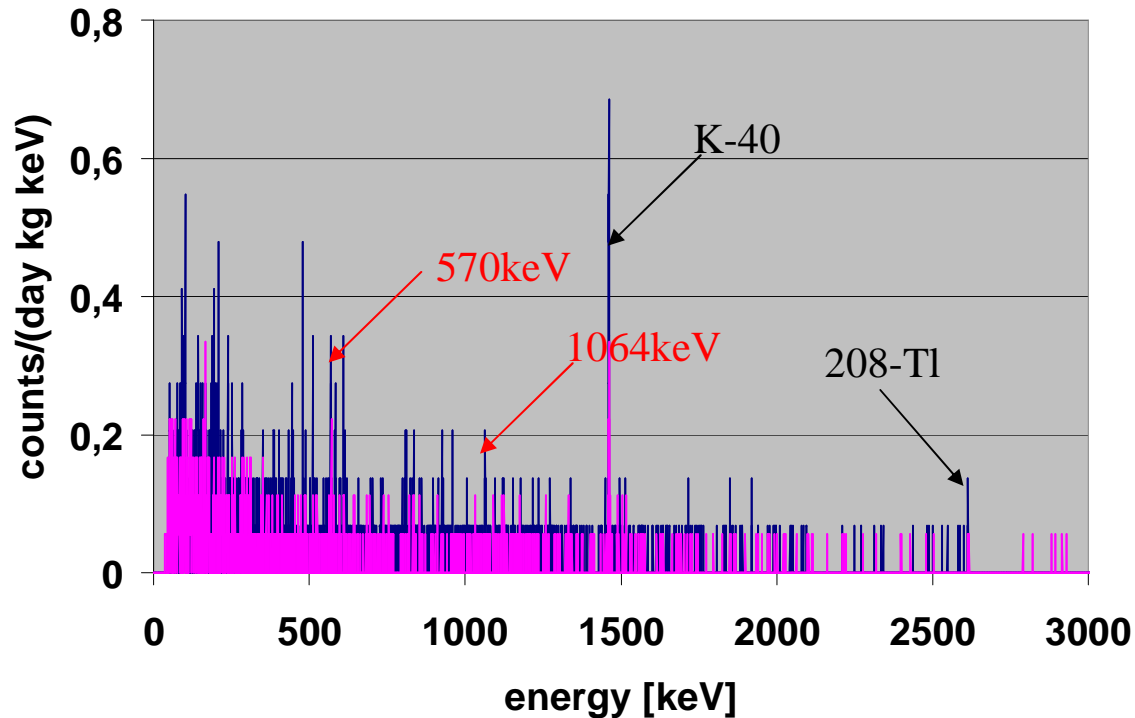
GeMPI 4 after cleaning-operation: (14 days, Aug. 1st - Aug. 16th,)



E[keV]	I_γ	[cts/d]	[cts/d]	[cts/d]
40-2700				108,3 +2,8
569,7	97,7%	40,60 +-0,99	3,92 +-0,57	1,14 +-0,34
1063,7	74,5%	21,49 +-0,72	3,52 +-0,42	0,64 +-0,24
1633,4	0,0%	2,70 +-0,26	0,42 +-0,18	0,11 +-0,11
2614,5	35,6%	0,11 +-0,06		0,29 +-0,14
583,2	30,4%	-0,07 +-0,24		0,71 +-0,27
1460,8	10,7%			2,71 +-0,45

Update on GeMPI 3 & 4

GeMPI 4 after cleaning-operation: (9.3 days, Oct. 3rd - Oct. 13th)



I_γ	[cts/d]	[cts/d]	[cts/d]	[cts/d]
			108,3 \pm 2,8	85,8 \pm 3,0
97,7%	40,60 \pm 0,99	3,92 \pm 0,57	1,14 \pm 0,34	0,59 \pm 0,38
74,5%	21,49 \pm 0,72	3,52 \pm 0,42	0,64 \pm 0,24	0,43 \pm 0,22
0,0%	2,70 \pm 0,26	0,42 \pm 0,18	0,11 \pm 0,11	-0,11 \pm 0,11
35,6%	0,11 \pm 0,06		0,29 \pm 0,14	0,22 \pm 0,15
30,4%	-0,07 \pm 0,24		0,71 \pm 0,27	0,05 \pm 0,20
10,7%			2,71 \pm 0,45	1,03 \pm 0,41

Update on GeMPI 3 & 4

Outlook:

- after this GERDA meeting installation of new DAQ system accessible from outside via network (ORTEC Dspec);
- repair of UPS required; contact with LNGS services;
- data taking until Christmas;
- calibration with source necessary in order to understand the system DAQ-detector;
- cleaning of GeMPI 3 will be done replacing some parts instead of cleaning them (e.g. gold foil, PE cup, PTFE set screws);
- maybe electropolishing of Cu parts required (if yes, then where? In Heidelberg?);
- Could GeMPI 4 be running in a satisfactory way also with the small contamination?

Good news: GeMPI 2 can probably be used in the near future for GERDA samples.
