

	A	D	E	F	G	M	Y	AR	AT	AU	BE	BF
1	Detector					Photomultiplier tube		NDE202 (PSD unit)				
2	Detector Segment number	Detector type	Position of the center of the detector segment			Channel on Caen HV unit	High voltage [V]	CFD threshold [mV] measured on the BARTEK unit with a Voltmeter except 2014-07-14 J and K			Separation Delay (SD) [mV]	
3			r [mm]	θ[deg]	φ[deg]		2014-10-09	2014-07-14	2014-07-14	2014-07-14	2012-02-02 before adjustment	2012-02-02 after adjustment
4							G	I	J	K [keV]	F	G
5	0	H1	510	46.830	352.843	0.00	-1960	-9.2	-61	22	-1606	-1621
6	1	H1	510	57.210	359.593	0.01	-1500	-9.2	-71	25	-1626	-1626
7	2	H1	510	47.200	7.061	0.02	-1780	-11.2	-62	22	-1620	-1620
8	3	H2	510	46.784	27.087	0.03	-1425	-11.2	-70	25	-1629	-1636
9	4	H2	510	47.210	44.824	0.04	-1510	-6.4	-44	16	-1644	-1658
10	5	H1	510	46.830	64.843	0.05	-1660	-6.4	-74	26	-1655	-1655
11	6	H1	510	57.210	71.593	0.06	-1260	-10.8	-62	22	-1608	-1616
12	7	H1	510	47.200	79.061	0.07	-1445	-10.8	-70	25	-1638	-1645
13	8	H2	510	46.784	99.087	0.08	-1580	-8.7	-72	26	-1656	-1656
14	9	H2	510	47.210	116.824	0.09	-1520	-8.7	-74	26	-1618	-1625
15	10	H1	510	46.830	136.843	0.10	-1760	-8.2	-69	25	-1632	-1632
16	11	H1	510	57.210	143.593	0.11	-1660	-8.2	-58	21	-1665	-1665
17	12	H1	510	47.200	151.061	0.12	-1515	-7.7	-62	22	-1619	-1619
18	13	H2	510	46.784	171.087	0.13	-1620	-7.7	-59	21	-1602	-1609
19	14	H2	510	47.210	188.824	0.14	-1460	-10.9	-66	24	-1623	-1638
20	15	H1	510	46.830	208.843	0.15	-1400	-10.9	-73	26	-1598	-1615
21	16	H1	510	57.210	215.593	2.00	-2140	-13.3	-72	26	-1610	-1616
22	17	H1	510	47.200	223.061	2.01	-1333	-13.3	-81	29	-1626	-1626
23	18	H2	510	46.784	243.087	2.02	-1800	-8.6	-64	23	-1617	-1624
24	19	H2	510	47.210	260.824	2.03	-1705	-8.6	-88	31	-1609	-1614
25	20	H1	510	46.830	280.843	2.04	-1660	-10.0	-73	26	-1633	-1633
26	21	H1	510	57.210	287.593	2.05	-1580	-10.0	-77	28	-1614	-1620
27	22	H1	510	47.200	295.061	2.06	-1760	-12.4	-71	25	-1628	-1633
28	23	H2	510	46.784	315.087	2.07	-1560	-12.4	-75	27	-1623	-1623
29	24	H2	510	47.210	332.824	2.08	-1465	-11.2	-71	25	-1670	-1620
30	25	H1	510	30.301	0.000	2.09	-1415	-11.2	-88	31	-1694	-1694
31	26	H2	510	34.866	36.000	2.10	-1340	-11.1	-57	20	-1648	-1664
32	27	H1	510	30.301	72.000	2.11	-1640	-11.1	-87	31	-1634	-1634
33	28	H2	510	34.866	108.000	2.12	-1605	-11.0	-73	26	-1581	-1590
34	29	H1	510	30.301	144.000	2.13	-1600	-11.0	-71	25	-1601	-1608
35	30	H2	510	34.866	180.000	2.14	-1550	-11.6	-68	24	-1607	-1607
36	31	H1	510	30.301	216.000	2.15	-1700	-11.6	-80	29	-1628	-1640
37	32	H2	510	34.866	252.000	4.00	-1410	-13.6	-68	24	-1625	-1625
38	33	H1	510	30.301	288.000	4.01	-1560	-13.6	-	-	-1609	-1609
39	34	H2	510	34.866	324.000	4.02	-1705	-11.5	-73	26	-1642	-1648
40	35	H1	510	18.540	344.737	4.03	-1700	-11.5	-87	31	-1633	-1633
41	36	H1	510	18.540	15.268	4.04	-1680	-11.4	-66	24	-1606	-1612
42	37	H1	510	18.540	56.732	4.05	-1720	-11.4	-74	26	-1636	-1642
43	38	H1	510	18.540	87.268	4.06	-2010	-11.4	-70	25	-1623	-1640
44	39	H1	510	18.540	128.732	4.07	-1680	-11.4	-63	23	-1629	-1640
45	40	H1	510	18.540	159.268	4.08	-1570	-9.4	-66	24	-1631	-1638
46	41	H1	510	18.540	200.732	4.09	-1660	-9.4	-77	28	-1632	-1632
47	42	H1	510	18.540	231.268	4.10	-1540	-11.3	-65	23	-1677	-1667
48	43	H1	510	18.540	272.732	4.11	-1510	-11.3	-87	31	-1661	-1654
49	44	H1	510	18.540	303.268	4.12	-1560	-13.9	-85	30	-1631	-1637
50	45	P	510	6.897	324.000	6.00	-2365	-8.3	-61	22	-1616	-1696
51	46	P	510	6.897	36.000	6.01	-2396	-8.3	-73	26	-1623	-1638
52	47	P	510	6.897	108.000	6.02	-2385	-8.3	-61	22	-1616	-1637
53	48	P	510	6.897	180.000	6.03	-2400	-12.4	-71	25	-1621	-1634
54	49	P	510	6.897	252.000	6.04	-2400	-12.4	-76	27	-1626	-1639
55	SUM	50	50	50	50		50	50	49	49		50
56	AVG		510	35	180		-1683	-11	-71	25		
57	STDEV		0	16	105		288	2	9	3		
58	MIN		510	6.9	0		-2400	-13.9	-88	15.71		-1696
59	MAX		510	57.21	359.59		-1260	-6.4	-44	31.43		-1590
60												
61	Comments:											
62	Cells marked grey: changed since previous date											
63	was changed during the week 2005-10-17 to 2005-10-21 and again at the end of Jan 2009											
65	Cells marked green: maximum values											
66	Cells marked yellow: minimum values											

- AQ3: These values were noted by Aurore 2012-01-24 – see Nwall logbook.
- AJ4: These values were written down 18 May 2006 before any changes were done for the 67Se experiment. These were the settings since middle of Oct 2005 when Darek Wolski visited GANIL and changed the values from the settings of 2005-07-16.
- AT4: These values were measured by Grzes by sending the anode signals to the oscilloscope (terminated in 1 MOhm) then via a lemo-T connector to the input of the NDE202 unit and by triggering the oscilloscope with the CFD output.
- AU4: The values in the previous column converted to keV using a calibration of 2.8 keV/mV and assuming 0 keV = 0 mV (there is no DC offset on the anode signals). The calibration was obtained by measuring the amplitude of the anode signal with an oscilloscope with 50 Ohm termination (the NDE202 input is also terminated in 50 Ohm) viewing the 137Cs Compton edge at 0.5 MeV. The Compton edge was at about 1.4 V for all HEX detectors (0-44). No measurement of the Compton edge was done for the PENT (45-49). Note: the accuracy of this rough energy calibration is not so good, estimated to be +/-20%.
- BA4: Check of thresholds done 2006-06-07 14:00, before 103Sn experiment.
- U11: The HV value for #6 was -1303 V in Jan 2012 when HV supply was switched on. The value -1330 V is probably a typo and it was likely -1303 V also in 2009.
- AQ37: Threshold changed from -12.3 to -13.4 by Aila and Johan 2012-01-30. Slightly too high count rate before.
- I38: The PM tube of this detector segment was most likely changed from 9319 to 9296 during the change of scintillator liquid done in Oct 2007. At least this is the information JN got from Sten Leven after the repair. Note: The label on the PM tube holder on the segment still says 9319!
- K38: 2014-10-07/JN: when changing the PMT of this detector we verified that the s/n was indeed 9296 (not 9319).
- L38: 2014-10-07/JN: the PMT was changed from s/n 9296 to one called PMT#3. The Photonis s/n of PMT#3 is not known. PMT#3 was given this name when it was used for NEDA tests at LNL 2012-2014. Shipped back to GANIL by Grzes 2014-10-06.
- AT38: Could not be measured because the HV was tripping all the time.
- AQ51: Threshold changed from -6.6 to -9.6 by Aila and Johan 2012-01-30. Slightly too high count rate before.

Table 1: Summary of the data			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100