Detector							Photomultiplier tube			PSD unit settings						
Detector segment number	Segment ID	Detector number	Detector type	Detector segment position			PMT ID	High voltage [V]		Serial number	Rack	Crate	Position in crate	Channel	CFD threshold [mV]	Separation Delay (SD) [mV]
				r [mm]	θ[deg]	ϕ[deg]	2009	Channel on Caen HV unit	2012-01-23	2012-01-31					2012-01-30	2012-02-02 after adjustment
															H	G
0	01BB	1	H1	510	46.830	352.843	9335	0.00	-1850	22	Left	Upper	01	Upper	-11.1	-1621
1	01FF	1	H1	510	57.210	359.593	9312	0.01	-1480	22	Left	Upper	01	Lower	-11.1	-1626
2	01DD	1	H1	510	47.200	7.061	9351	0.02	-1740	12	Left	Upper	02	Upper	-12.3	-1620
3	11BC	11	H2	510	46.784	27.087	9303	0.03	-1440	12	Left	Upper	02	Lower	-12.3	-1636
4	11AF	11	H2	510	47.210	44.824	9318	0.04	-1520	24	Left	Upper	03	Upper	-9.1	-1658
5	02BB	2	H1	510	46.830	64.843	9346	0.05	-1615	24	Left	Upper	03	Lower	-9.1	-1655
6	02FF	2	H1	510	57.210	71.593	9333	0.06	-1303	4	Left	Upper	04	Upper	-12.0	-1616
7	02DD	2	H1	510	47.200	79.061	9334	0.07	-1445	4	Left	Upper	04	Lower	-12.0	-1645
8	12BC	12	H2	510	46.784	99.087	9343	0.08	-1540	26	Left	Upper	08	Upper	-7.2	-1656
9	12AF	12	H2	510	47.210	116.824	9337	0.09	-1540	26	Left	Upper	08	Lower	-7.2	-1625
10	03BB	3	H1	510	46.830	136.843	9342	0.10	-1725	29	Left	Upper	09	Upper	-9.2	-1632
11	03FF	3	H1	510	57.210	143.593	9328	0.11	-1645	29	Left	Upper	09	Upper	-9.2	-1665
12	03DD	3	H1	510	47.200	151.061	9289	0.12	-1510	25	Left	Upper	00	Upper	-10.1	-1619
13	13BC	13	H2	510	46.784	171.087	9341	0.13	-1590	25	Left	Upper	00	Lower	-10.1	-1609
14	13AF	13	H2	510	47.210	188.824	9294	0.14	-1445	10	Left	Upper	11	Upper	-11.5	-1638
15	04BB	4	H1	510	46.830	208.843	9320	0.15	-1420	10	Left	Upper	11	Lower	-11.5	-1615
16	04FF	4	H1	510	57.210	215.593	9340	2.00	-2070	13	Left	Middle	00	Upper	-13.2	-1616
17	04DD	4	H1	510	47.200	223.061	9313	2.01	-1340	13	Left	Middle	00	Lower	-13.2	-1626
18	14BC	14	H2	510	46.784	243.087	9345	2.02	-1705	14	Left	Middle	01	Upper	-8.5	-1624
19	14AF	14	H2	510	47.210	260.824	9338	2.03	-1650	14	Left	Middle	01	Lower	-8.5	-1614
20	05BB	5	H1	510	46.830	280.843	9301	2.04	-1630	27	Left	Middle	02	Upper	-10.1	-1633
21	05FF	5	H1	510	57.210	287.593	9285	2.05	-1550	27	Left	Middle	02	Lower	-10.1	-1620
22	05DD	5	H1	510	47.200	295.061	9349	2.06	-1700	16	Left	Middle	03	Upper	-12.8	-1633
23	15BC	15	H2	510	46.784	315.087	9314	2.07	-1515	16	Left	Middle	03	Lower	-12.8	-1623
24	15AF	15	H2	510	47.210	332.824	9300	2.08	-1465	17	Left	Middle	08	Upper	-10.7	-1620
25	06DD	6	H1	510	30.301	0.000	9321	2.09	-1435	17	Left	Middle	08	Lower	-10.7	-1694
26	11DE	11	H2	510	34.866	36.000	9305	2.10	-1360	18	Left	Middle	09	Upper	-10.5	-1664
27	07DD	7	H1	510	30.301	72.000	9350	2.11	-1560	18	Left	Middle	09	Lower	-10.5	-1634
28	12DE	12	H2	510	34.866	108.000	9327	2.12	-1575	20	Left	Middle	10	Upper	-9.4	-1590
29	08DD	8	H1	510	30.301	144.000	9330	2.13	-1555	20	Left	Middle	10	Lower	-9.4	-1608
30	13DE	13	H2	510	34.866	180.000	9304	2.14	-1520	21	Left	Middle	11	Upper	-12.0	-1607
31	09DD	9	H1	510	30.301	216.000	9286	2.15	-1677	21	Left	Middle	11	Lower	-12.0	-1640
32	14DE	14	H2	510	34.866	252.000	9288	4.00	-1380	1	Left	Lower	00	Upper	-13.4	-1625
33	10DD	10	H1	510	30.301	288.000	9296	4.01	-1720	1	Left	Lower	00	Lower	-13.4	-1609
34	15DE	15	H2	510	34.866	324.000	9352	4.02	-1690	2	Left	Lower	01	Upper	-11.4	-1648
35	06FF	6	H1	510	18.540	344.737	9299	4.03	-1650	2	Left	Lower	01	Lower	-11.4	-1633
36	06BB	6	H1	510	18.540	15.268	9339	4.04	-1660	3	Left	Lower	02	Upper	-9.7	-1612
37	07FF	7	H1	510	18.540	56.732	9324	4.05	-1625	3	Left	Lower	02	Lower	-9.7	-1642
38	07BB	7	H1	510	18.540	87.268	9290	4.06	-1950	5	Left	Lower	03	Upper	-11.8	-1640
39	08FF	8	H1	510	18.540	128.732	9293	4.07	-1665	5	Left	Lower	03	Lower	-11.8	-1640
40	08BB	8	H1	510	18.540	159.268	9306	4.08	-1570	6	Left	Lower	07	Upper	-7.6	-1638
41	09FF	9	H1	510	18.540	200.732	9295	4.09	-1560	6	Left	Lower	07	Lower	-7.6	-1632
42	09BB	9	H1	510	18.540	231.268	9284	4.10	-1540	7	Left	Lower	08	Upper	-10.8	-1667
43	10FF	10	H1	510	18.540	272.732	9307	4.11	-1510	7	Left	Lower	08	Lower	-10.8	-1654
44	10BB	10	H1	510	18.540	303.268	9323	4.12	-1700	8	Left	Lower	09	Upper	-13.1	-1637
45	E	1	P	510	6.897	324.000	5967	6.00	-2390	15	Left	Middle	07	Lower	-8.3	-1696
46	A	1	P	510	6.897	36.000	6093	6.01	-2400	9	Left	Lower	10	Lower	-9.6	-1638
47	B	1	P	510	6.897	108.000	0603	6.02	-2400	9	Left	Lower	10	Upper	-9.6	-1637
48	C	1	P	510	6.897	180.000	6030	6.03	-2400	11	Left	Lower	11	Lower	-9.7	-1634
49	D	1	P	510	6.897	252.000	5977	6.04	-2320	11	Left	Lower	11	Upper	-9.7	-1639
SUM	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50
AVG				510	35	180			-1665						-11	
STDEV				0	16	105			280						2	
MIN		1		510	6.9	0	5967		-2400						-13.4	-1696
MAX		15		510	57.21	359.59	9352		-1303						-7.2	-1590

Comments:

Cells marked grey: changed since previous date

Cells marked red: The scintillation liquid in detector segments number 33 and 44 was changed during the week 2005-10-17 to 2005-10-21 and again at the end of Jan 2009

Cells marked green: maximum values

Cells marked yellow: minimum values

Z2: Each PSD unit has two channels labelled Upper and Lower. NOTE: There is crosstalk of signals between the channels in the same PSD unit!

AA2: 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.

AJ2: This is the setting for the separation of neutrons and gamma rays, which affect the N and G sumbuses and logic output signals.

AH3: These values were noted by Aurore 2012-01-24 – see Nwall logbook.

AI3: These values were noted by Aurore 2012-01-24 – see Nwall logbook.

AC4: The CFD thresholds were set as low as possible, just above noise. Note that because the CFD threshold setting is common for the two channels of each PSD unit, the value of the threshold is dictated by the channel in each unit that requires the higher threshold value. In the Neutron Wall logbook the optimal values for each individual channel are listed, but the ones shown here are the final ones applied for the experiment in May 2006.

AD4: Check of thresholds done 2006-06-07 14:00, before 103Sn experiment.

AM4: These should be checked as I am not sure the values in the logbook, which are the ones listed here, are the final ones!

AO4: Check of thresholds done 2006-06-07 14:00, before 103Sn experiment.

S11: 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.

V19: This unit was s/n 10 when we arrived to GANIL for the tests in Jan 2012. It was probably changed sometimes during the 2009 campaign, without this file being updated.

AM27: It said 1928 in the logbook. It should probably be 1628!

AI37: Thrreshold 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!

AM38: This value might be wrong. Probably changed after HV was changed around 2006-05-20.

V50: Thie units for the pentagons were the ones indicated in this column when we arrived to GANIL for the tests in Jan 2012. The were most likely used during the 2009 campaign, without this file being updated.

AI51: Threshold changed from -6.6 to -9.6 by Aila and Johan 2012-01-30. Slightly too high count rate before.