



CLUSTER DETECTOR TEST REPORT

CLUSTER DETECTOR No. 04
Test carried on 08.01.12 – 09.01.12

| Ch. | HEX | U _{op} [V] | U _{op} – 500 V | | U _{op} | | | |
|-----|-----|------------------------|-------------------------|---------------------|-----------------|---------------------|---------------|---------------|
| | | | FWHM [keV] | $\frac{FWTM}{FWHM}$ | 1332 keV | | | 122 keV |
| | | | | | FWHM [keV] | $\frac{FWTM}{WFHM}$ | Pos. [Ch.] | FWHM [keV] |
| A | 138 | 3500 | 2.01 | n.c. | 1.93 | n.c. | 5622 | |
| B | 50 | 4000 | 1.92 | n.c. | 1.92 | n.c. | 6155 | |
| C | 88 | 3500 | 2.01 | n.c. | 1.98 | n.c. | 8908 | |
| D | 59 | 3000 | 1.95 | n.c. | 1.91 | n.c. | 9414 | |
| E | 70 | 4000 | 2.02 | n.c. | 2.02 | n.c. | 6503 | |
| F | 153 | 3500 | 2.10 | n.c. | 1.98 | n.c. | 6474 | |
| G | 89 | 3500 | 2.12 | n.c. | 2.07 | n.c. | 6302 | |

Operational Temperature: -161.3 °C

Date: 09.01.2012

Tested by:
/I.Kojouharov/

Assembly and test remarks:

Regular test after assembly at RIKEN.

Test Equipment:

HV – ORTEC 660

Main Amplifier – ORTEC 671, $\tau = 6 \mu\text{s}$, Gain 100 x 0.72

ADC – 4801A (RIKEN), MCA - PC98B

Source - ^{60}Co