~~Würfel~~

Intensität I_0 ohne Würfel

$t = 60s$

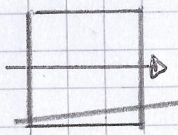
Gross Area ~~5878~~ 13741

Net Area ~~543 ± 57~~ 9520 ± 137

Peak ~~854,10 keV~~ (nicht der Peak) 827,54 keV

(+Kalibration, sollte bei ~662 keV liegen)

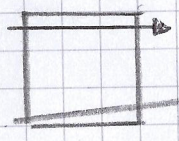
Würfel 1 – Nur Aluhülle



$t = 60s$ ~~Gross Area 13157~~

824,48 keV Net Area 9554 ± 132

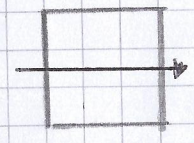
Speichern vergessen



$t = 60s$ Gross Area ~~12982~~

822,44 keV Net Area 9292 ± 131

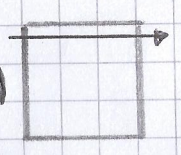
1)



$t = 60s$ Gross Area 13050

824,14 keV Net Area 9437 ± 131

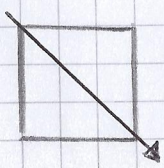
2)



$t = 60s$ Gross Area 12819

822,85 keV Net Area 9401 ± 130

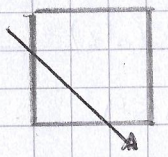
3)



$t = 60s$ Gross Area 13114

823,79 keV Net Area 9392 ± 132

4)

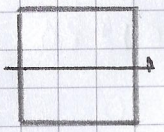


$t = 60s$ Gross Area 12983

822,97 keV Net Area 9409 ± 131

Würfel 2 – Ein Material

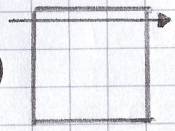
1)



$t = 480s$ Gross Area 56779

820,91 keV Net Area 40005 ± 277

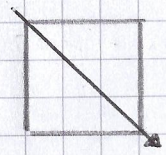
2)



$t = 480s$ Gross Area 56792

821,06 keV Net Area 40283 ± 276

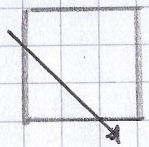
3)



$t = 480s$ Gross Area 47821

818,48 keV Net Area 32938 ± 256

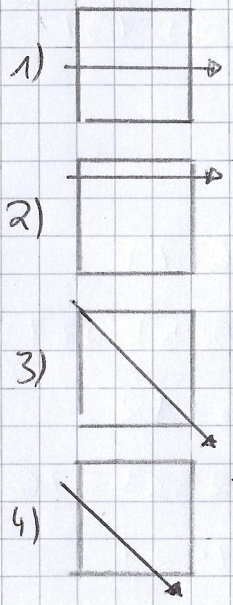
4)



$t = 480s$ Gross Area 61972

817,87 keV Net Area 42817 ± 291

Würfel 3 – Ein Material (schwerer Klotz)



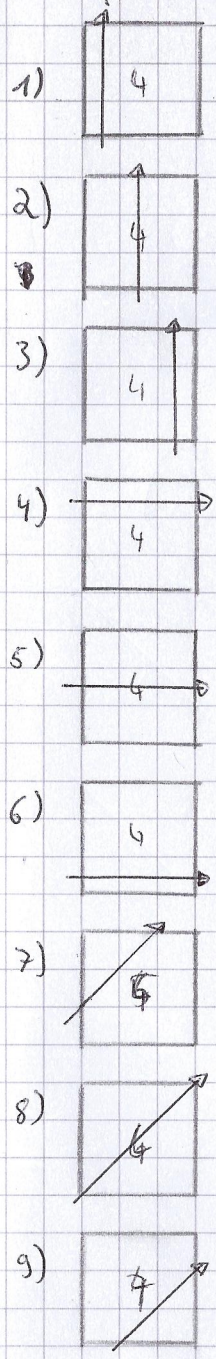
1) t = 600s — Gross Area 4589
   815,39 keV — Net Area 2685 ± 82
2) t = 480s — Gross Area 4377
   817,43 keV — Net Area 2569 ± 80
3) t = 480s — Gross Area 1690
   814,51 keV — Net Area 880 ± 51
4) t = 480s — Gross Area 6739
   810,20 keV — Net Area 3475 ± 103

!

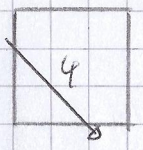
Vor Einsetzen Würfel 4 bestimmen von I_0:

Peak 809,30 keV — Gross Area 13003
t = 60s — Net Area 6916 ± 132

Würfel 4 – Schachbrettanordnung

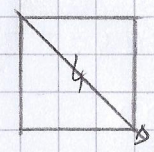


1) t = 480s — Gross Area 5468
   810,72 keV — Net Area 3194 2 ± 286
2) t = 480s — Gross Area 4402
   811,66 keV — Net Area 2316 ± 83
3) t = 480s — Gross Area 5006
   807,11 keV — Net Area 2332 ± 84
4) t = 480s — Gross Area 7906
   807,95 keV — Net Area 4227 ± 104
5) t = 480s — Gross Area 7902
   804,86 keV — Net Area 3775 ± 105
6) t = 480s — Gross Area 9798
   805,95 keV — Net Area 4568 ± 118
7) t = 480s — Gross Area 7972
   806,80 keV — Net Area 3836 ± 106
8) t = 480s — Gross Area 3230
   804,23 keV — Net Area 1539 ± 67
9) t = 480s — Gross Area 5738
   808,48 keV — Net Area 2650 ± 90

10) 

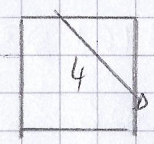
$t = 480\,s$ Gross Area 12283

810,78 keV Net Area 6344 ± 130

11) 

$t = 480\,s$ Gross Area 3476

810,89 keV Net Area 1622 ± 70

12) 

$t = 480\,s$ Gross Area 5258

808,39 keV Net Area 2573 ± 86

Zur Auswertung

- Spektrum der Leermessung
- Im Protokoll erklären, welche Bereiche im Spektrum existieren
- 1. I_0 Messung für die ersten 3 Würfel, 2. I_0 Messung für den letzten

- Spektrum erklären
- Beschreiben was berechnet wird (z.B. Vekt. Matrix)
- Poissonfehler
- Abweichungen können groß sein
- Material zuordnen mit Quellenangabe
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