

Stacked Foil:

OFL: 206.4

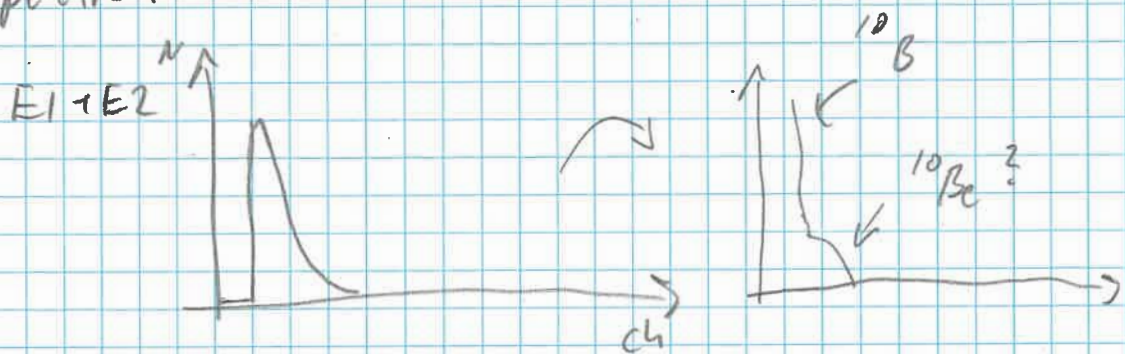
Forsøg 1:

Be-54 in SRC

Acc sat til 1000 kV \rightarrow der med kendes HE
magneton. RI-ESA udregnes til 54.35 kV.

RI magnet skannes til 646.35 mT

spektre:



Acc sat høj, så forventeligt at ^{10}B slipper
igennem

Count Rate med aperture c. 250 Hz
rate uden aperture c. 3500 Hz

RI-ESA scan 53.8 - 54.8 (RI op in)

Tuned to 54.33 kV

Change to BeB counts stadig observeret
 \rightarrow så ^{10}B slipper igennem

Change to BeSI samme spek.

Forsøg 2

Acc @ 980 kV

BeSI in SRC

H₂ magnet : 669.17 mT (udregnet)

RZ-ESA : 53.3 kV (udregnet)

RZ-magnet : 630.14 mT skaleret fra 1000 kV

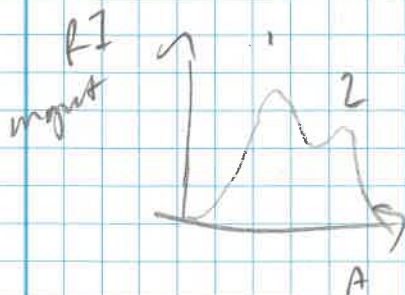
↓

$$B_2 = B_1 \sqrt{\frac{E_2}{E_1}}$$

Counts : detektor nøgenhede samme stillade som ved 1000 kV. Rate med RZ op i

20 Hz ⁹Be beam ~ 0.14 nA, shifter kulde

⁹Be @ 1.5 nA rate 260



1 634.7
2 643.530

BeB inserted still counts - 5 s⁰

vi ses 10¹³

Forsøg 3

ACC 950 kV

Blank \rightarrow significant error 10^{-13}

He : 659.14 mT

RT - ESA : 51.72 kV

RT magnet : 627.995

} calculated

HE magnet tune 170 \rightarrow 172 A

~~627.99 mT~~ 171 \rightarrow 171.5 A
659.28 mT

OFC \rightarrow 2.2% \rightarrow 207.5 °/b

\downarrow 2.6

RT magnet

~~627.99 mT~~ 626.4 mT

Forsøg 4

900 kV

RT magnet 609.5 mT

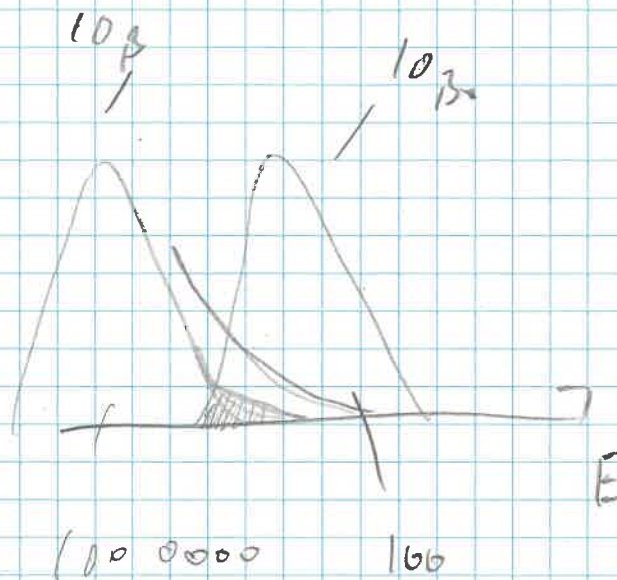
ESA 49.09 kV

HE 641.75 mT

10^{-13} reduced \rightarrow man stadig til stede

Forsøg 5 850 kV

HE 623.35 mT ESA 46.48 RT 592.5



ADC settings (original)

① ②

L/A SEL	9.95 V	9.868 V
ULD	9.95 V	9.868 V
LLO	299.33 mV	118.8 189.38 mV
ADL TH	140 mV	140.24 mV
PAC OUT	497 mV	0.084 mV

Detected pressure 6⁻¹ mbar (0.6)

Mass in AMU		Charge state		ACC in kV		HE magnet		RI-ESA	RI-magnet	
LE	HE	LE	HE	set	read	A	mT	kV	A	mT
25	9	-1	1	1000	1005	166.88	635.07	53.40	90.40	587.51
25	9	-1	1	960	965	161.60	622.32	51.30	87.20	568.56
25	9	-1	1	960	965	161.50	622.30	51.28		
25	9	-1	1	930	934	159.04	612.64	49.80	86.12	561.21
25	9	-1	1	930	934	159.08	612.61			
25	9	-1	1	900	904	156.40	602.87	48.20	86.00	559.10
26	10	-1	1	1000	1005	152.56	675.78			
14	14	-1	2	1000			587.15			

$$B \propto \sqrt{\frac{m E}{q^2}}$$

1.64 mm

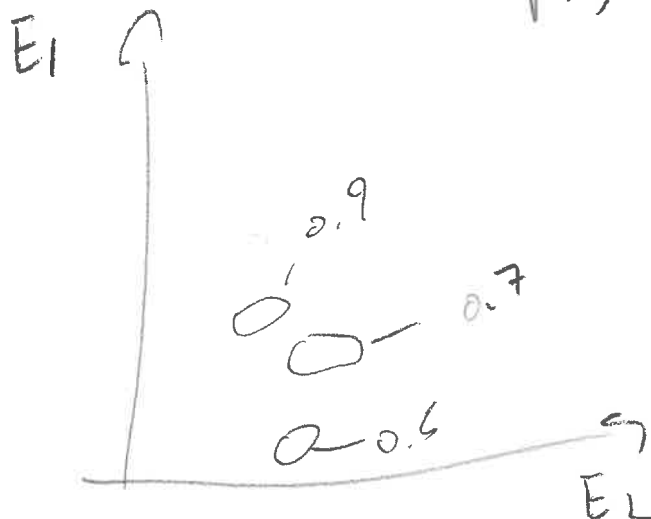
$$B_1 = \sqrt{\frac{m E_1}{q^2}}$$

$$B_2 = \sqrt{\frac{m E_2}{q^2}}$$

~~BA~~

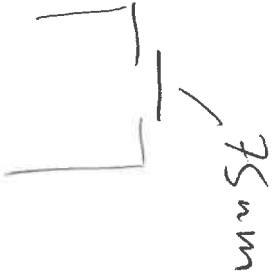
$$\frac{B_{10}}{B_9} = \frac{\sqrt{\frac{m_{10} E_{10}}{q^2}}}{\sqrt{\frac{m_9 E_9}{q^2}}}$$

$$B_{10} = B_9 \sqrt{\frac{m_{10} E_{10}}{m_9 E_9}}$$



950 layout

150
500
1000
stacked



150
506
1000 ✓
1750

Pos

1	54-298	8	51-77
2	54-291	9	51-78
3	54-292	10	51-79
4	51-77	11	51 13 138
5	51-74	12	13 139
6	51-75	13	B 140
7	51-76	14	54 293
		15	54 54 294
		16	54 295

~~1782~~

675780

17 54 296

18 62 131

19 13 141

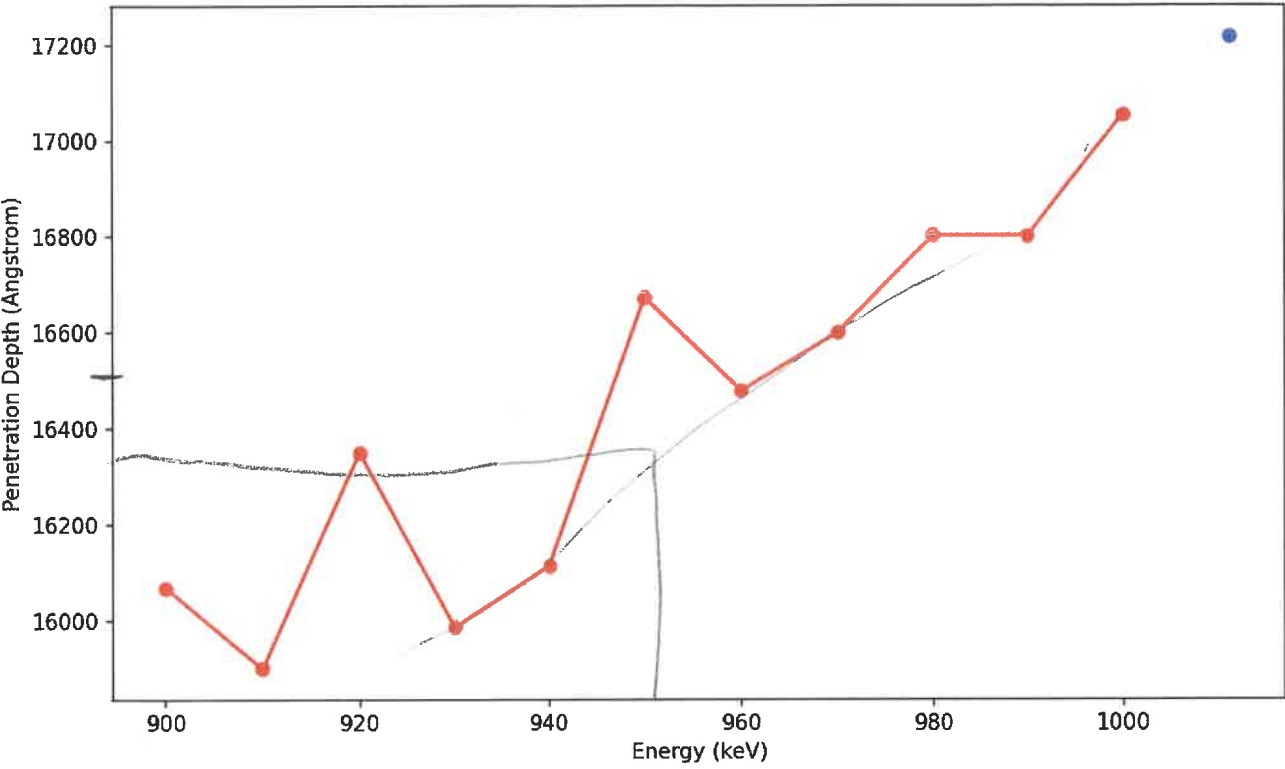
ESA 24.36 → 25 20 51-80

~~21~~

21 62 132

22 54 297

212 220



Handwritten notes and sketches:

- Top right: A simple sketch of a rounded rectangle.
- Middle left: A sketch of a curve with the text "b2.e" and "7=1" written above it.
- Bottom left: A sketch of a curve with a circle drawn around a point on it.
- Bottom center: A sketch of a curve with a diagonal line intersecting it.
- Bottom right: A sketch of a curve with an arrow pointing to it and some scribbles below.