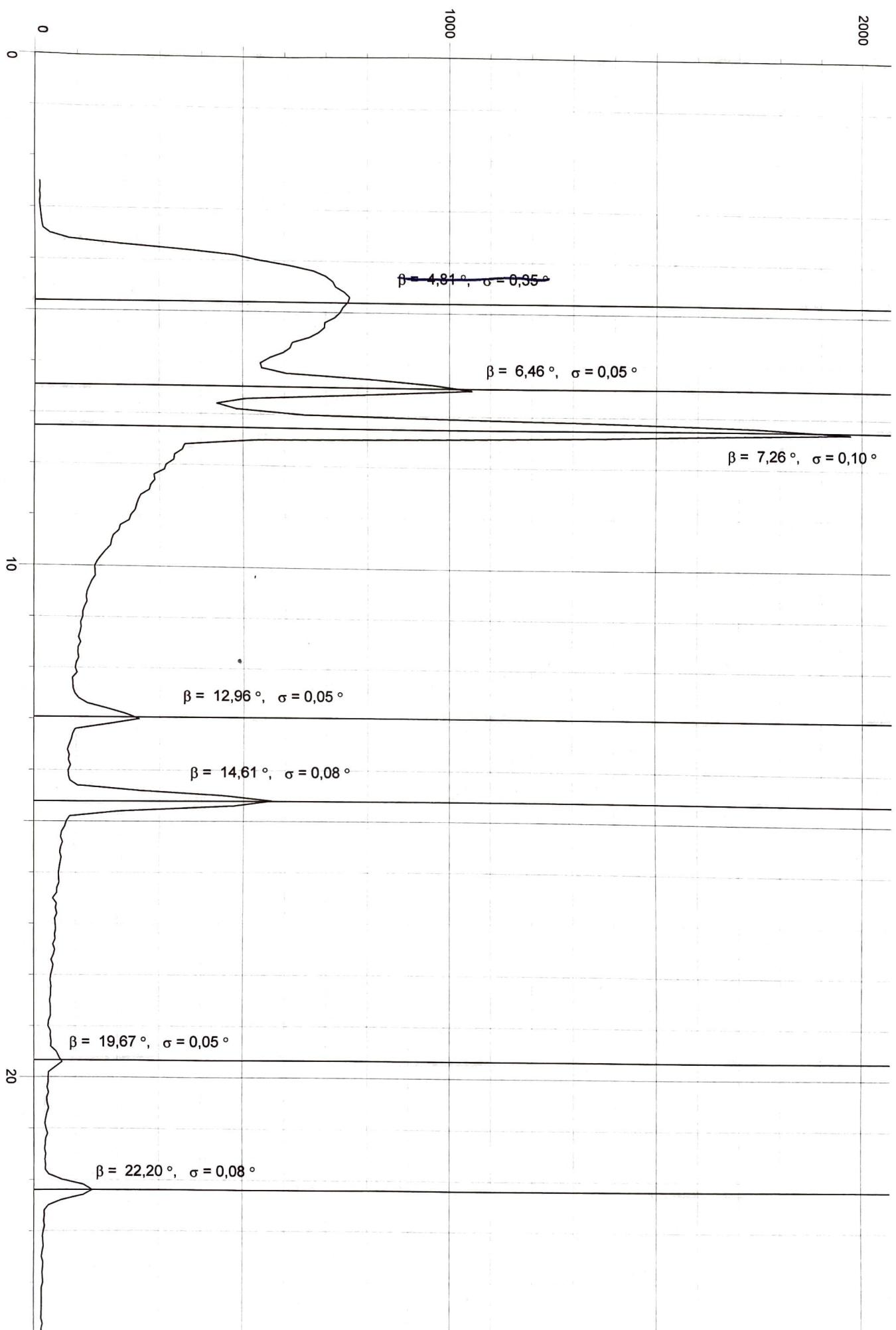
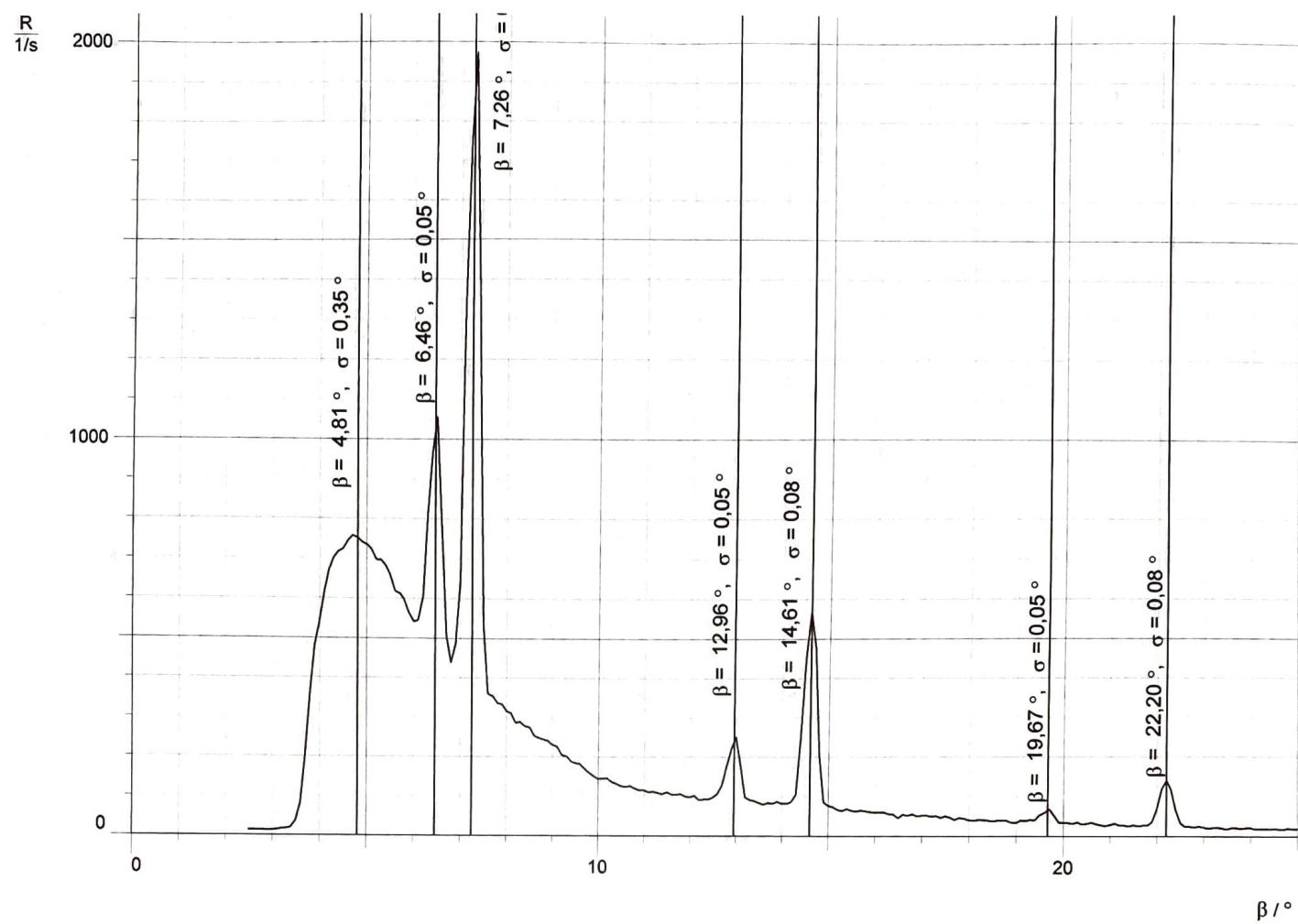
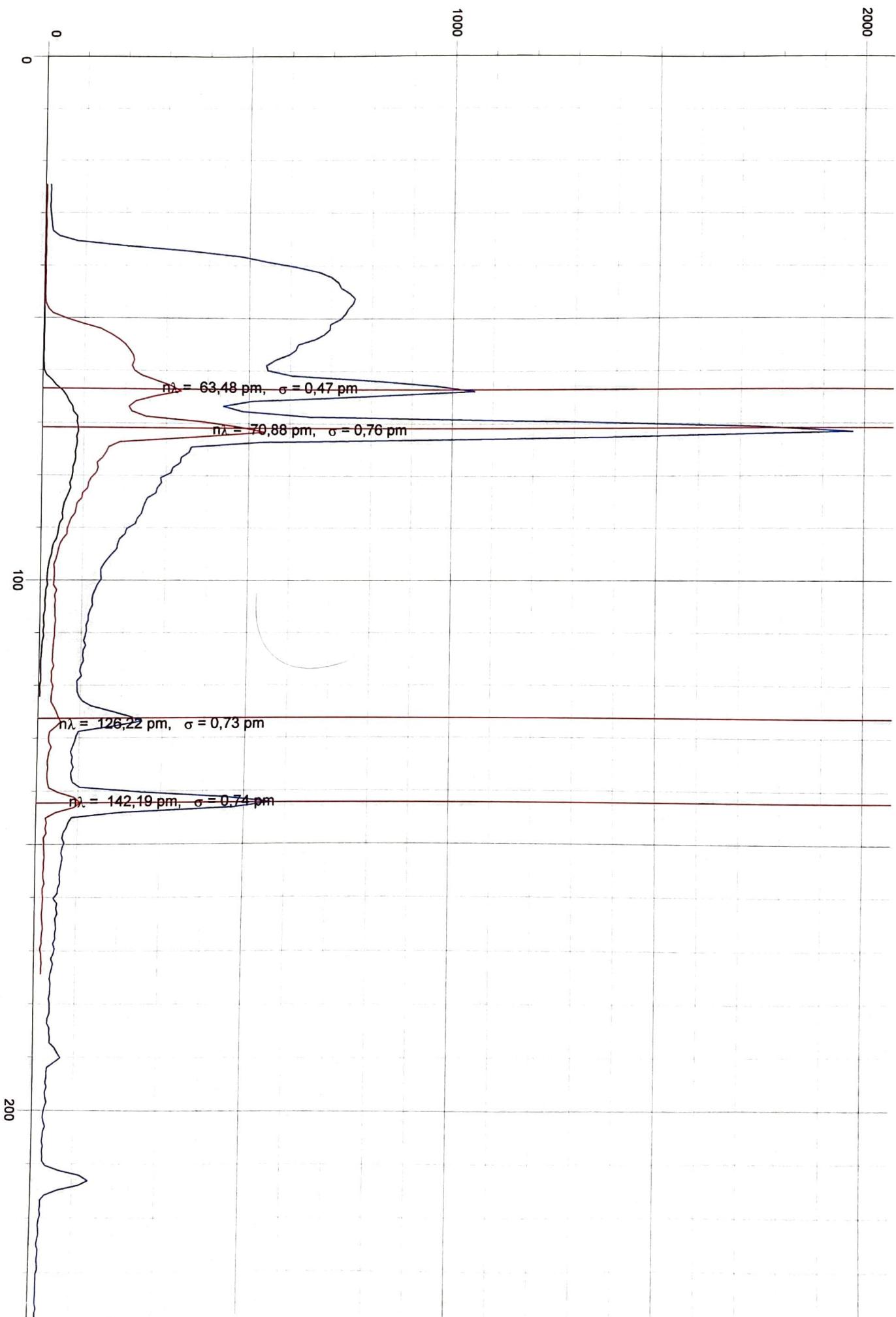
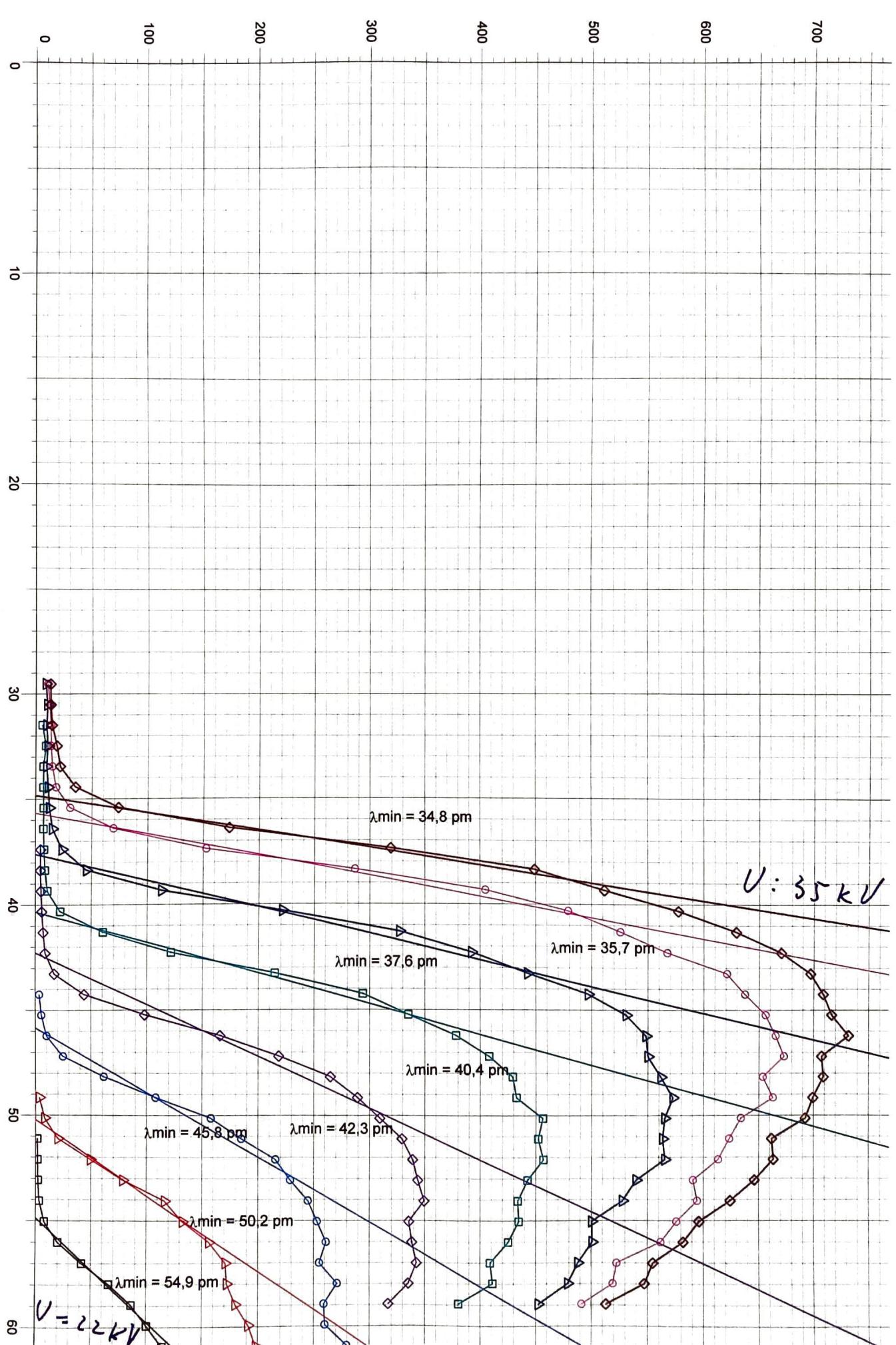


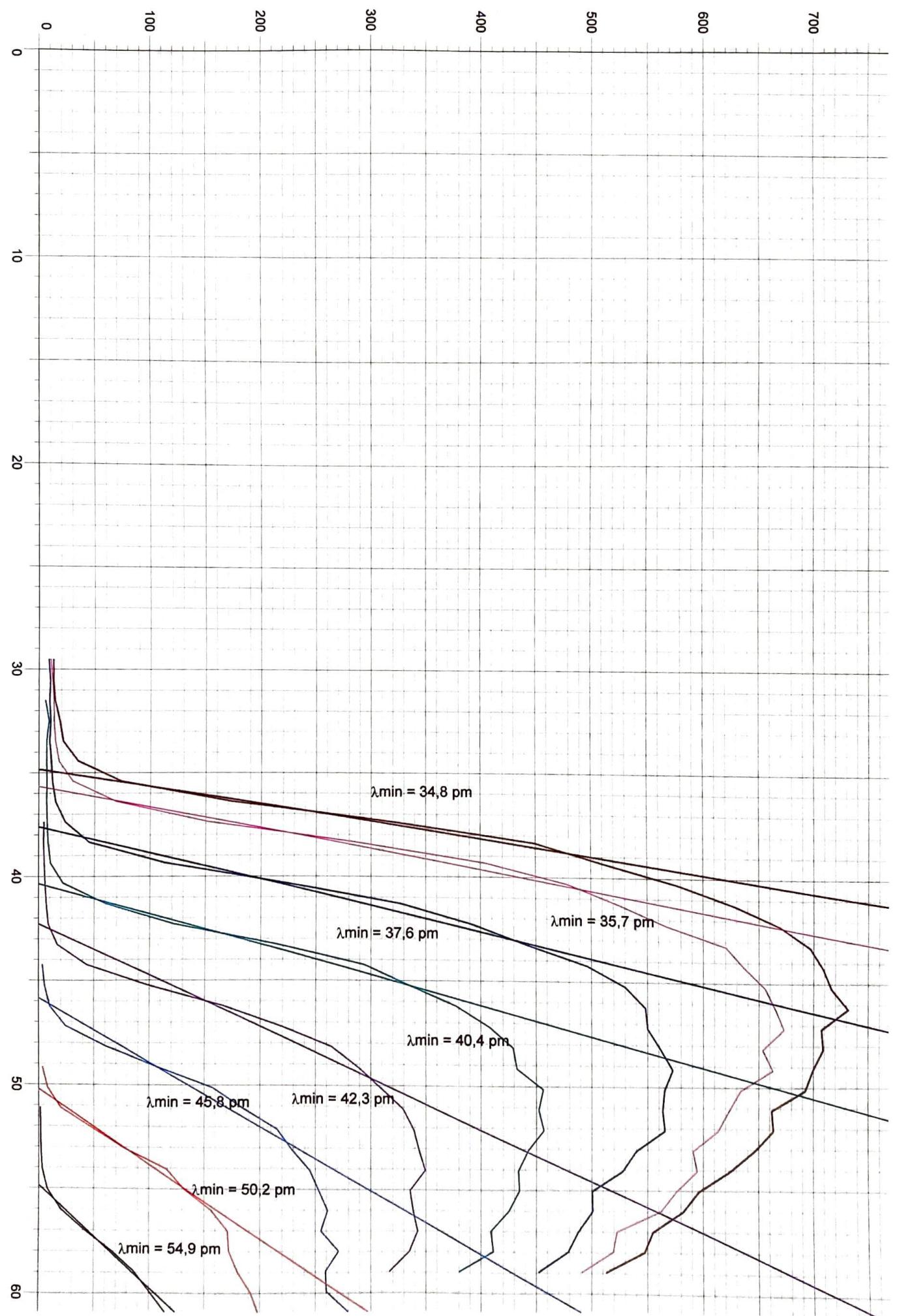
R
1/s
2000

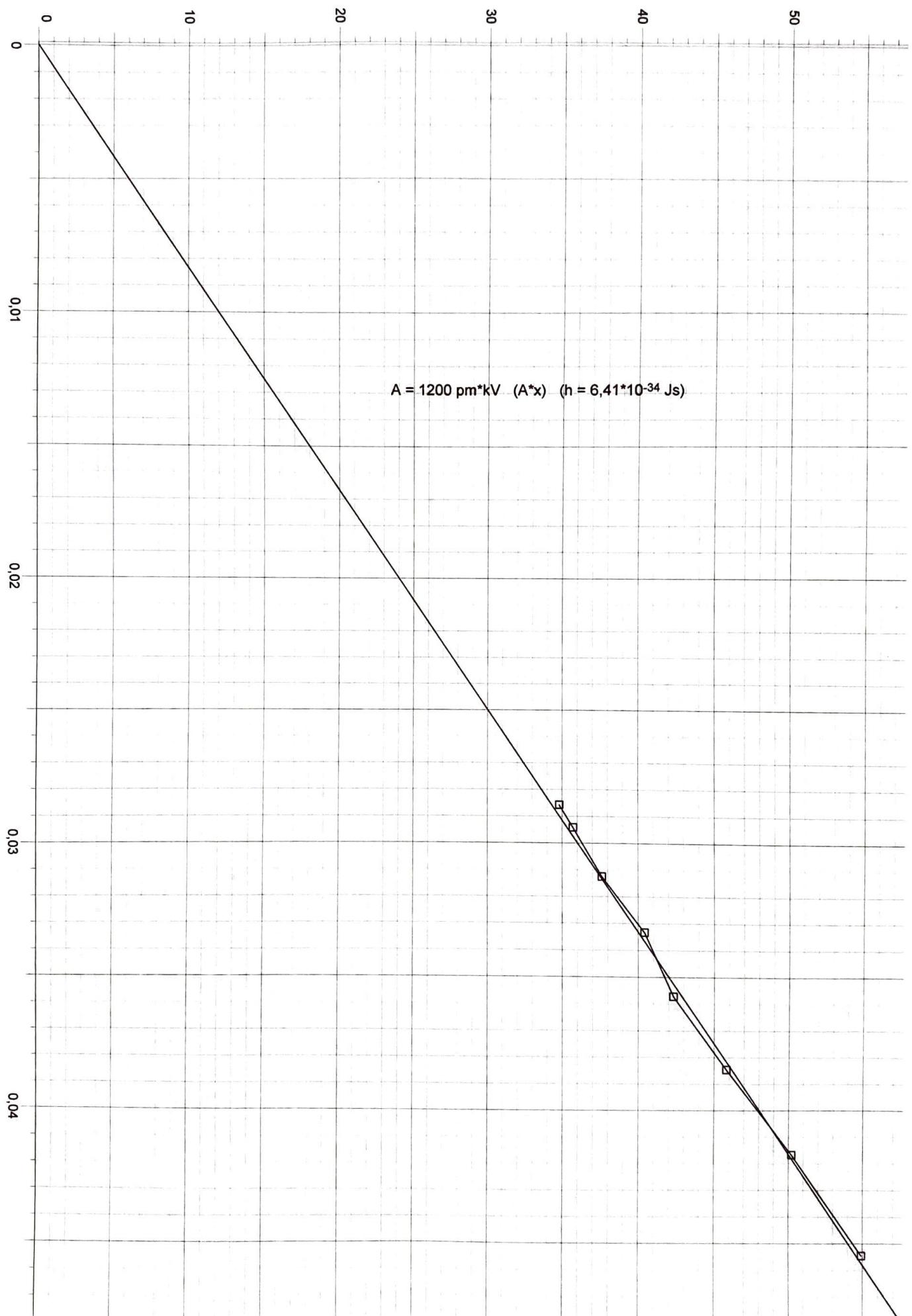


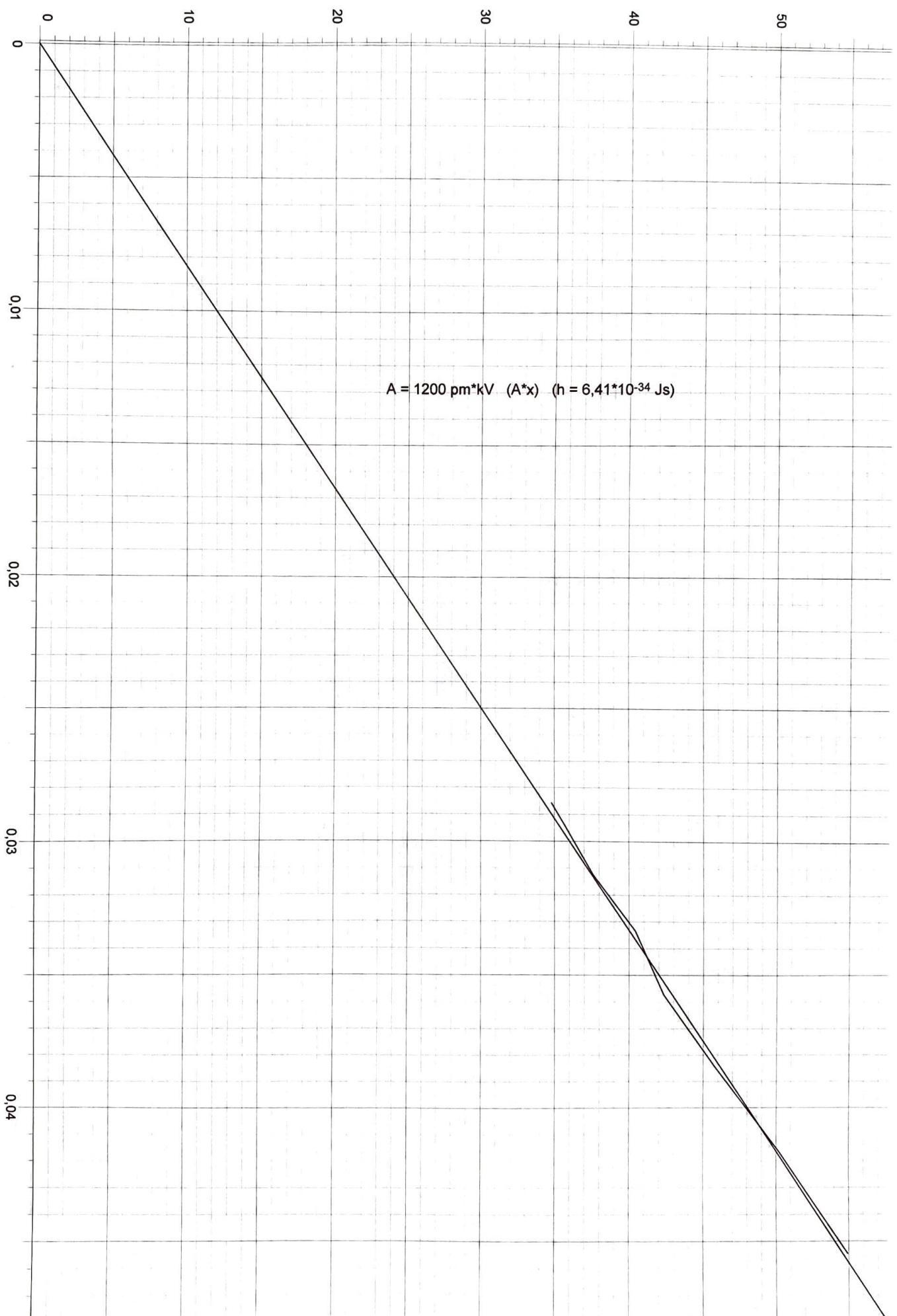




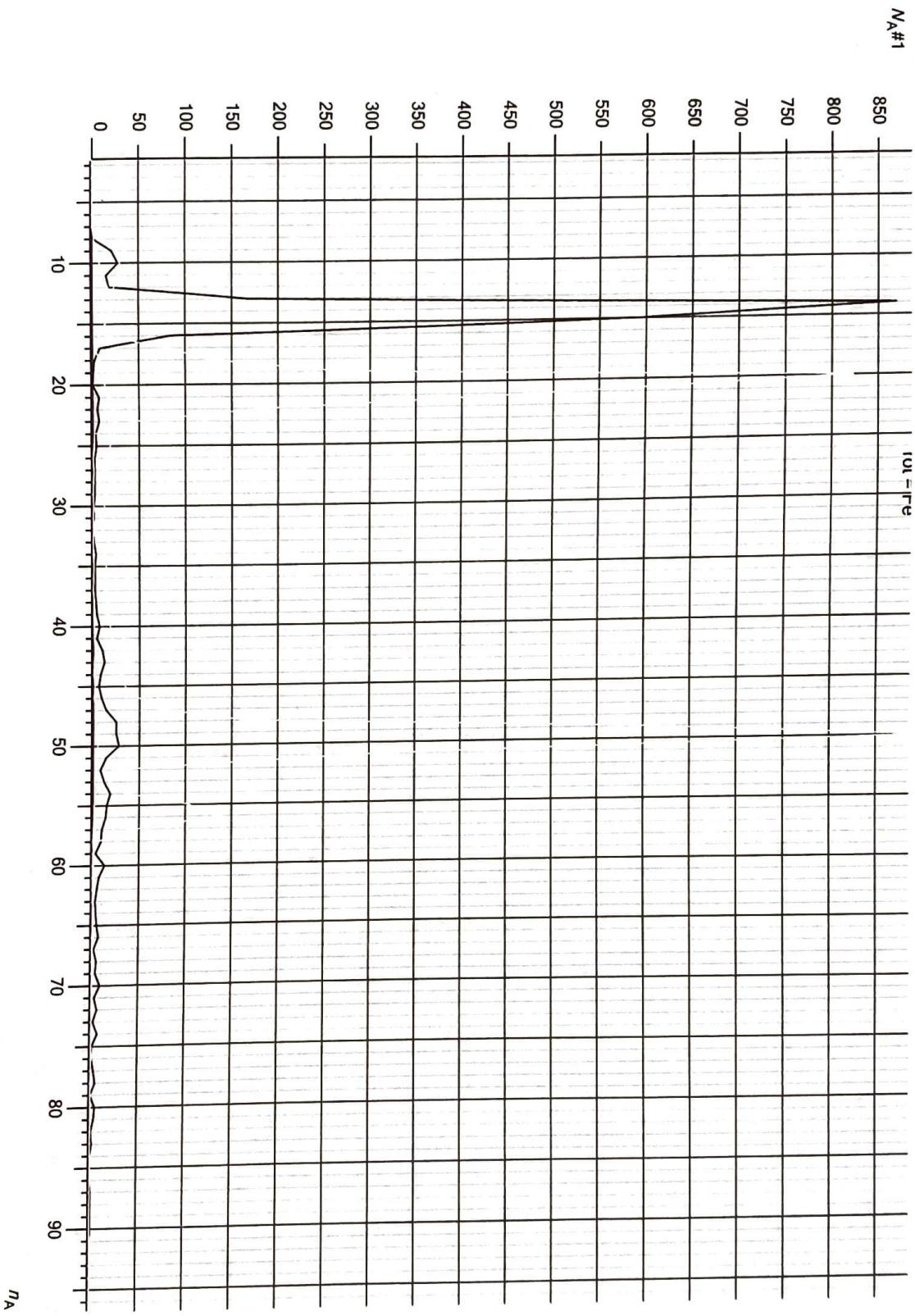




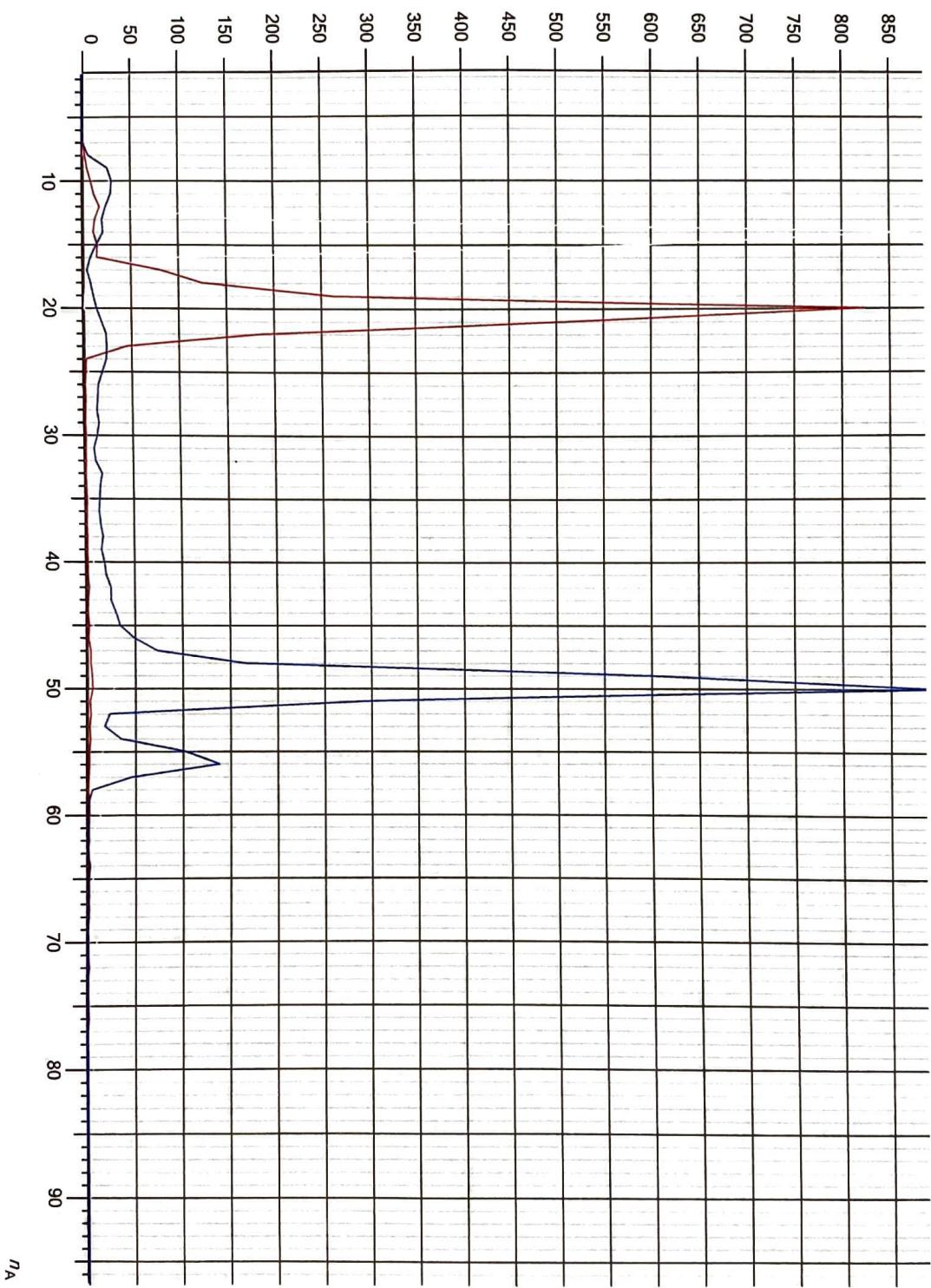




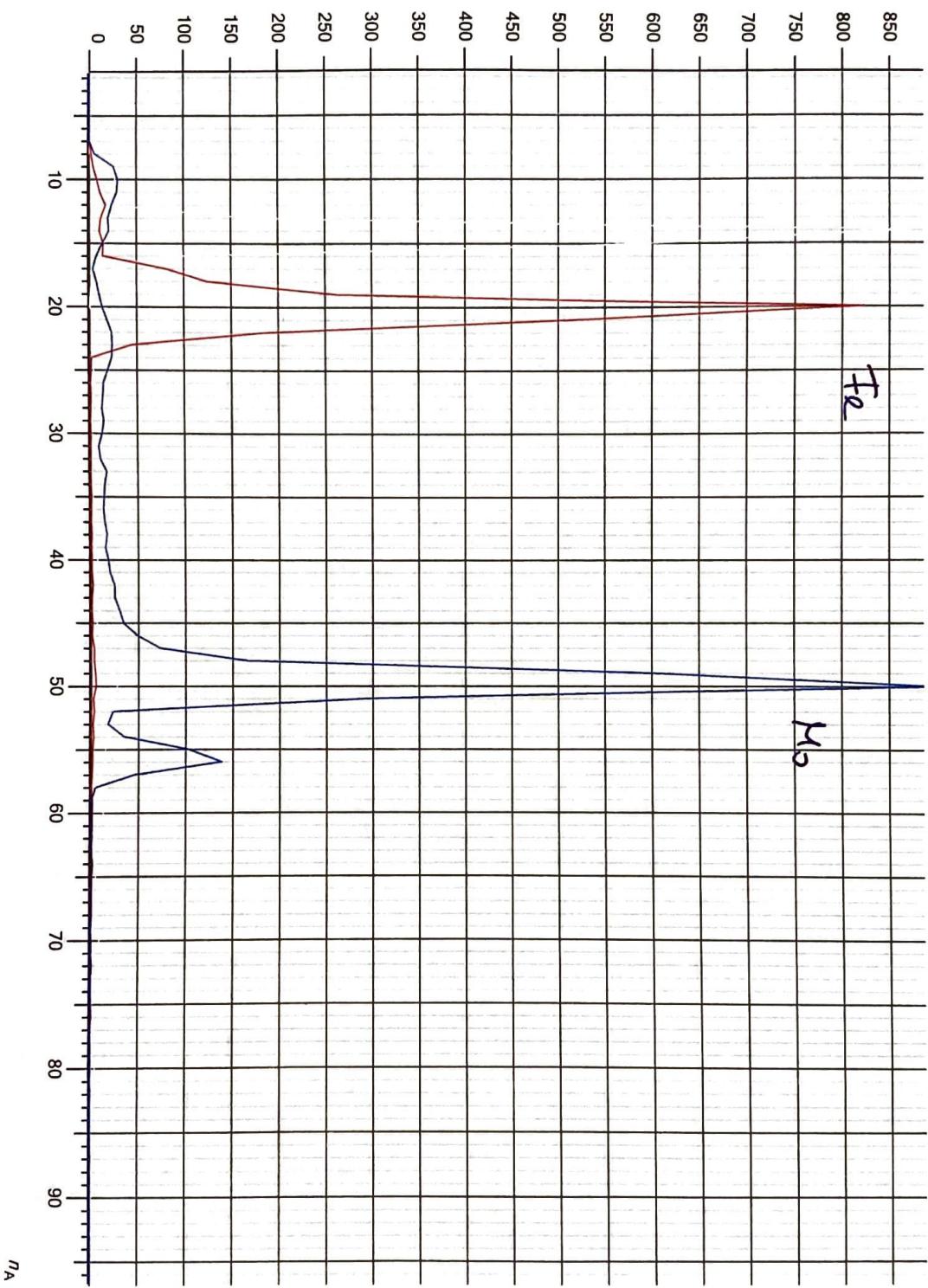
Standard - TV4 Spektrum Ti - CASSY Lab 2



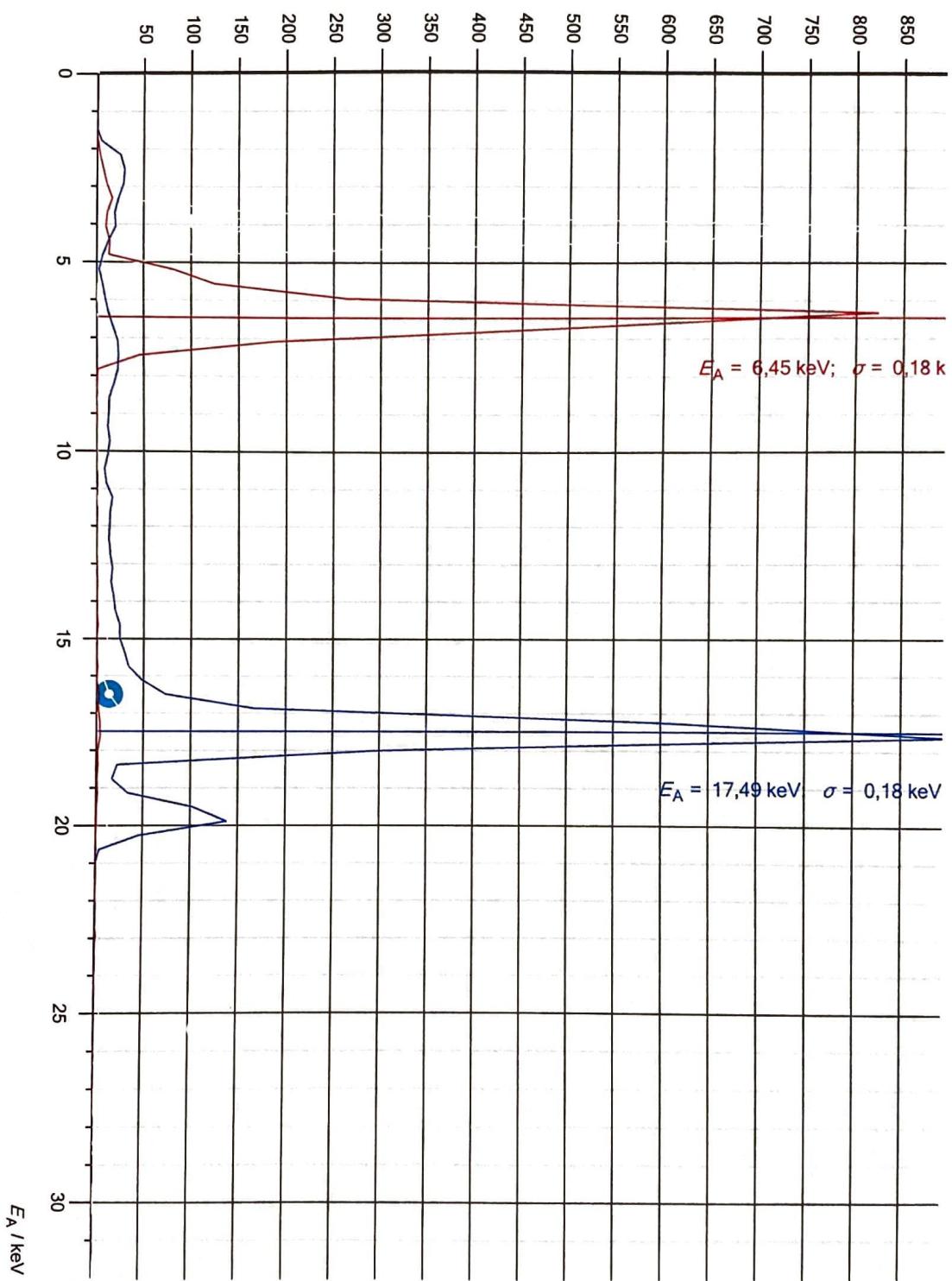
Standard - TV4 Spektrum Tl - CASSY Lab 2



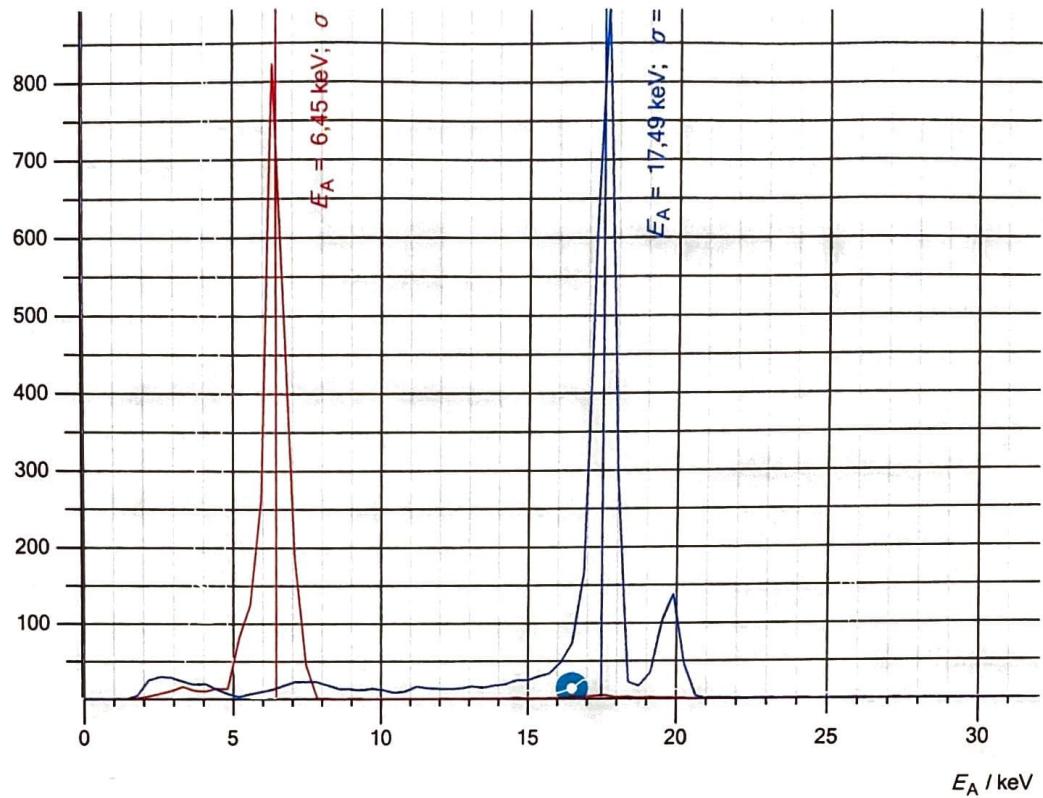
Standard - TV4 Spektrum Fe Mo - CASSY Lab 2



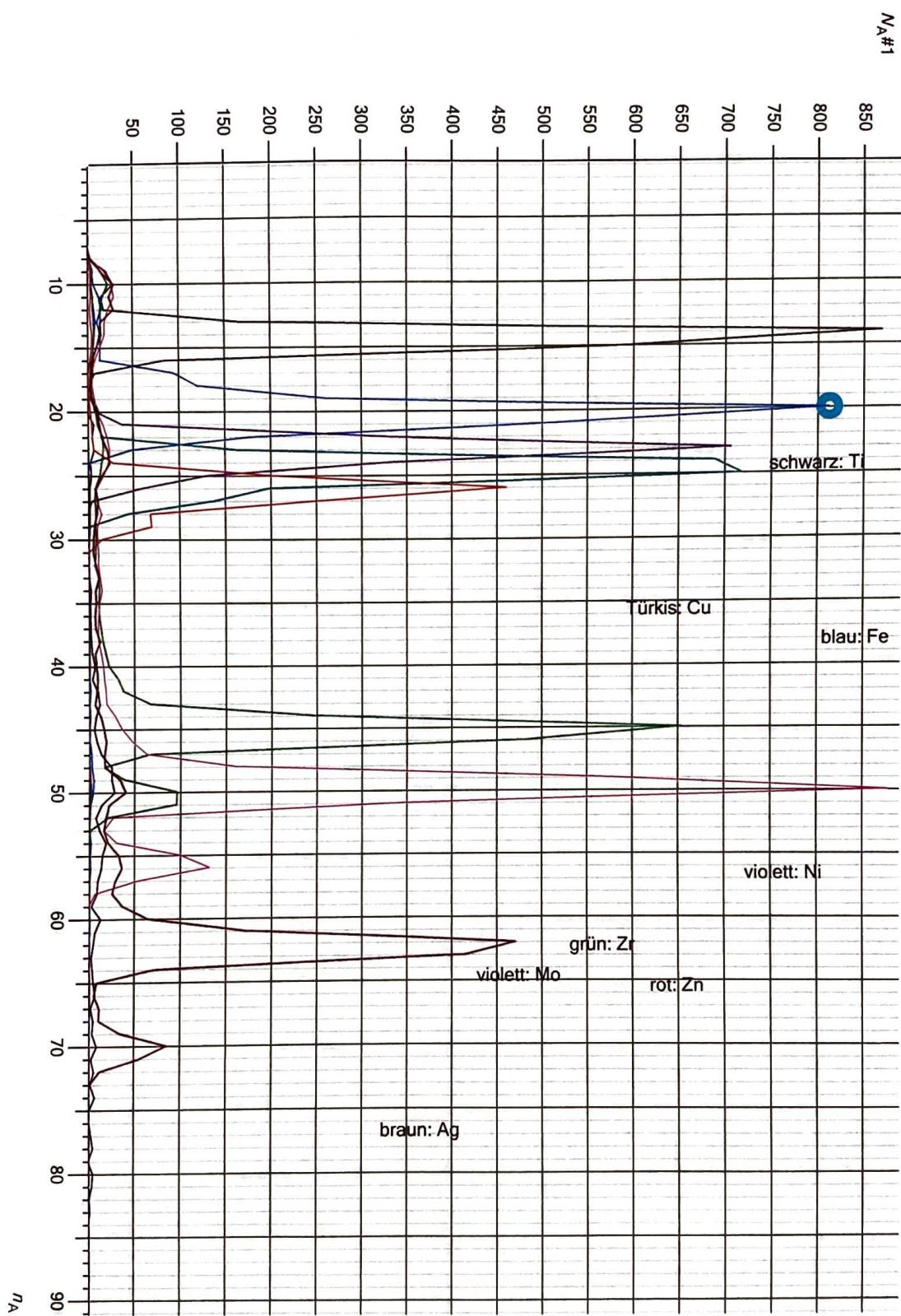
Standard - TV4 Spektrum Fe Mo kalibriert - CASSY Lab 2



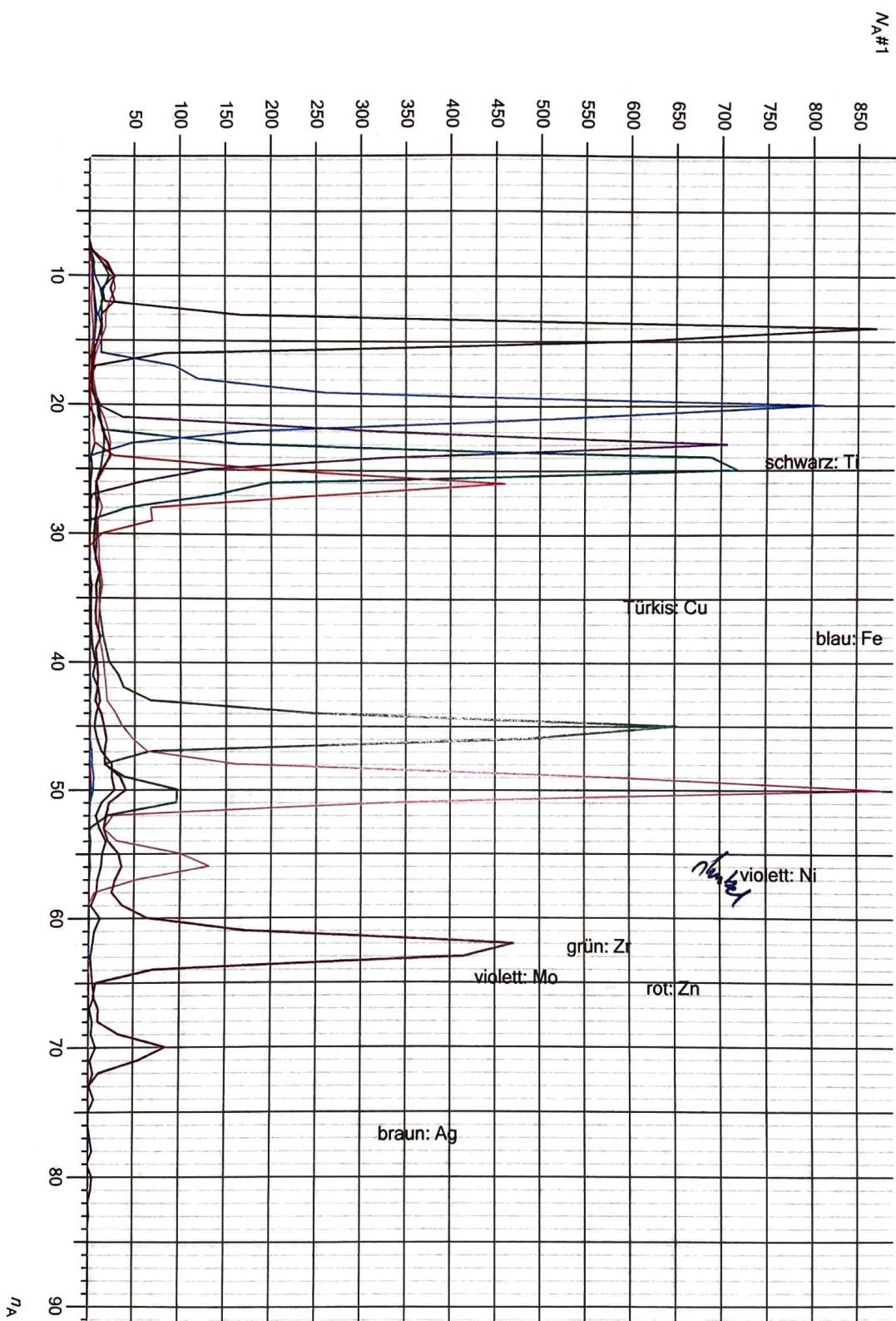
Standard - TV4 Spektrum Fe Mo kalibriert - CASSY Lab 2



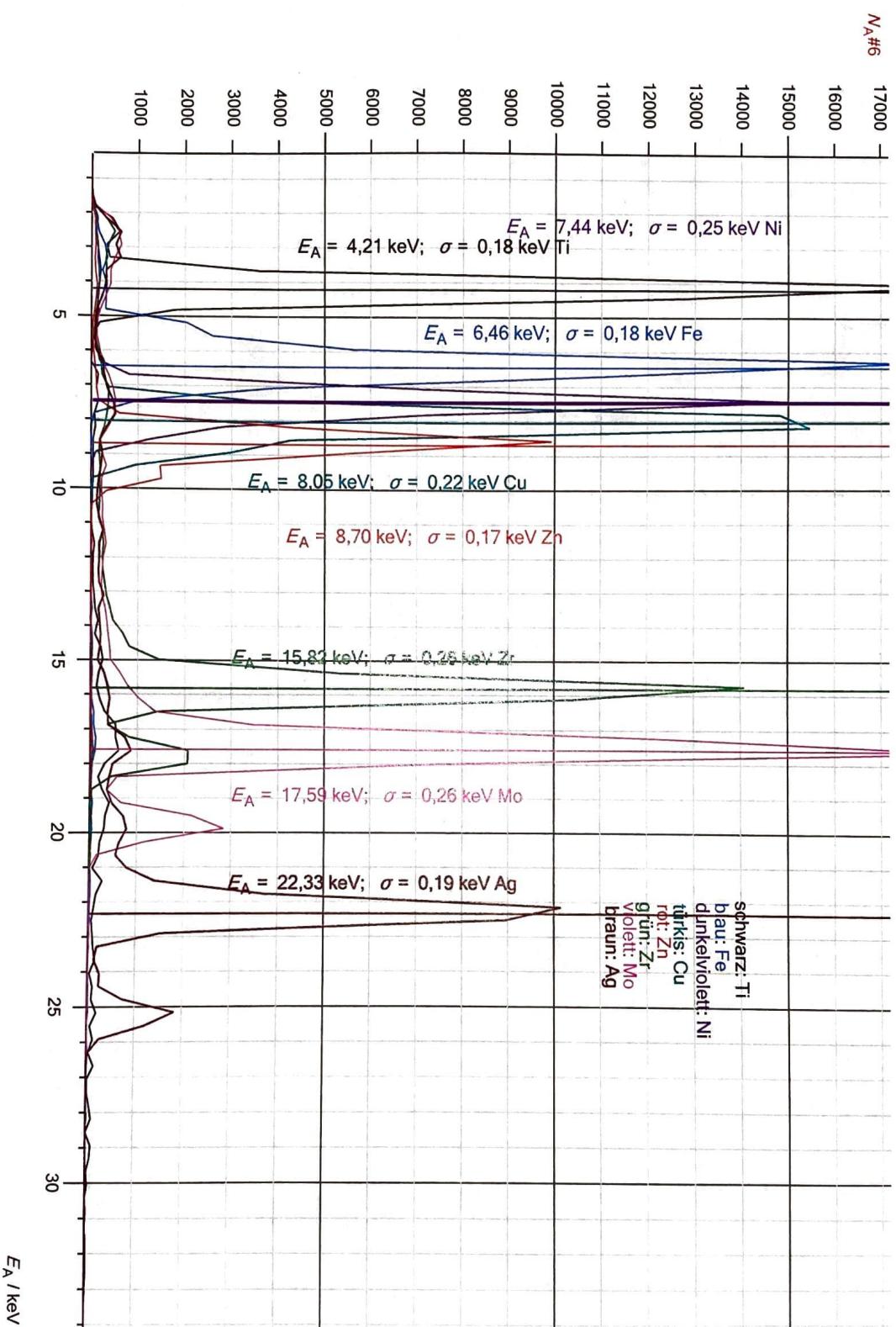
Standard - TV4 Spektrum Ti Fe Ni Cu Zn Zr Mo Ag - CASSY Lab 2



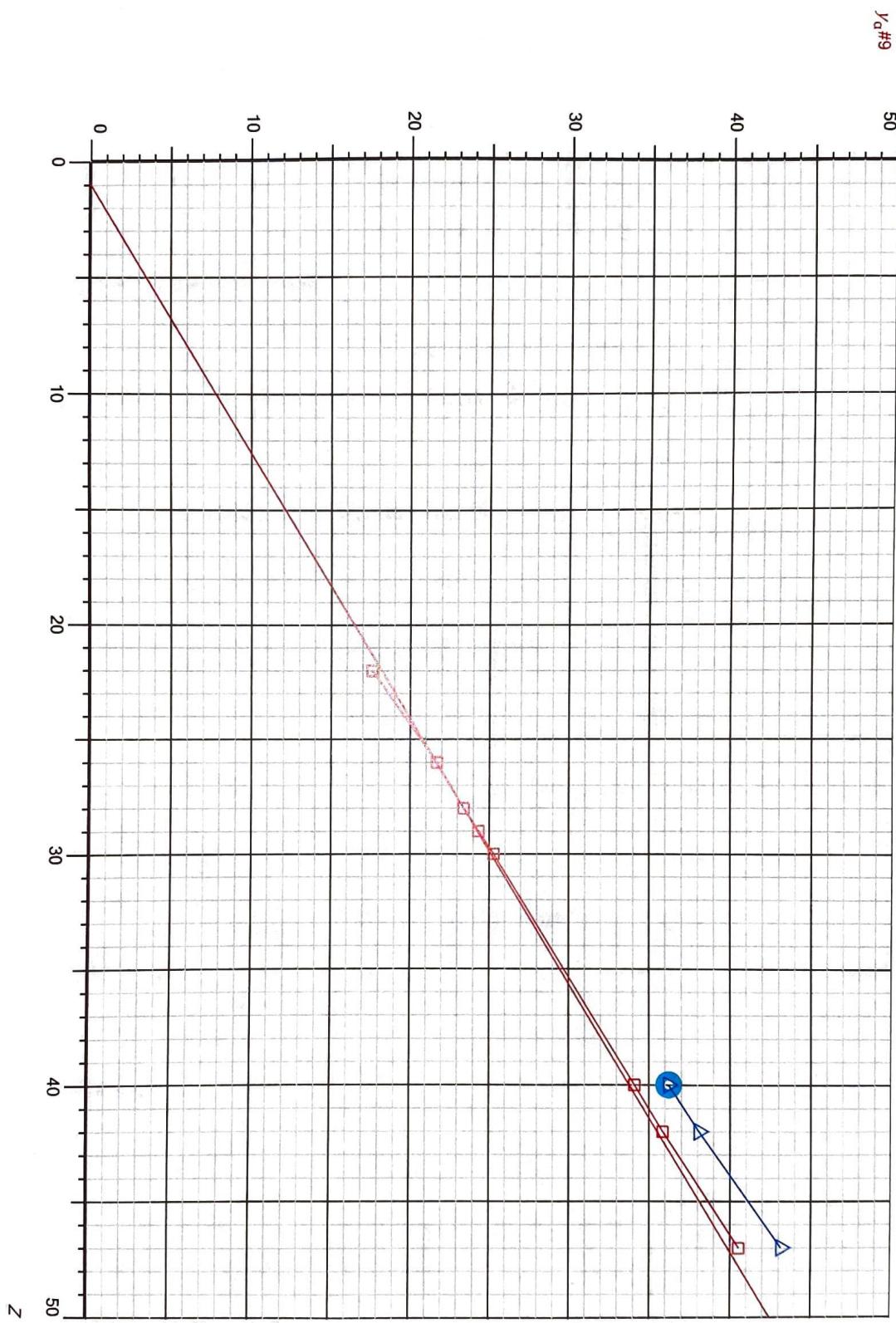
Standard - TV4 Spektrum Ti Fe Ni Cu Zn Zr Mo Ag - CASSY Lab 2



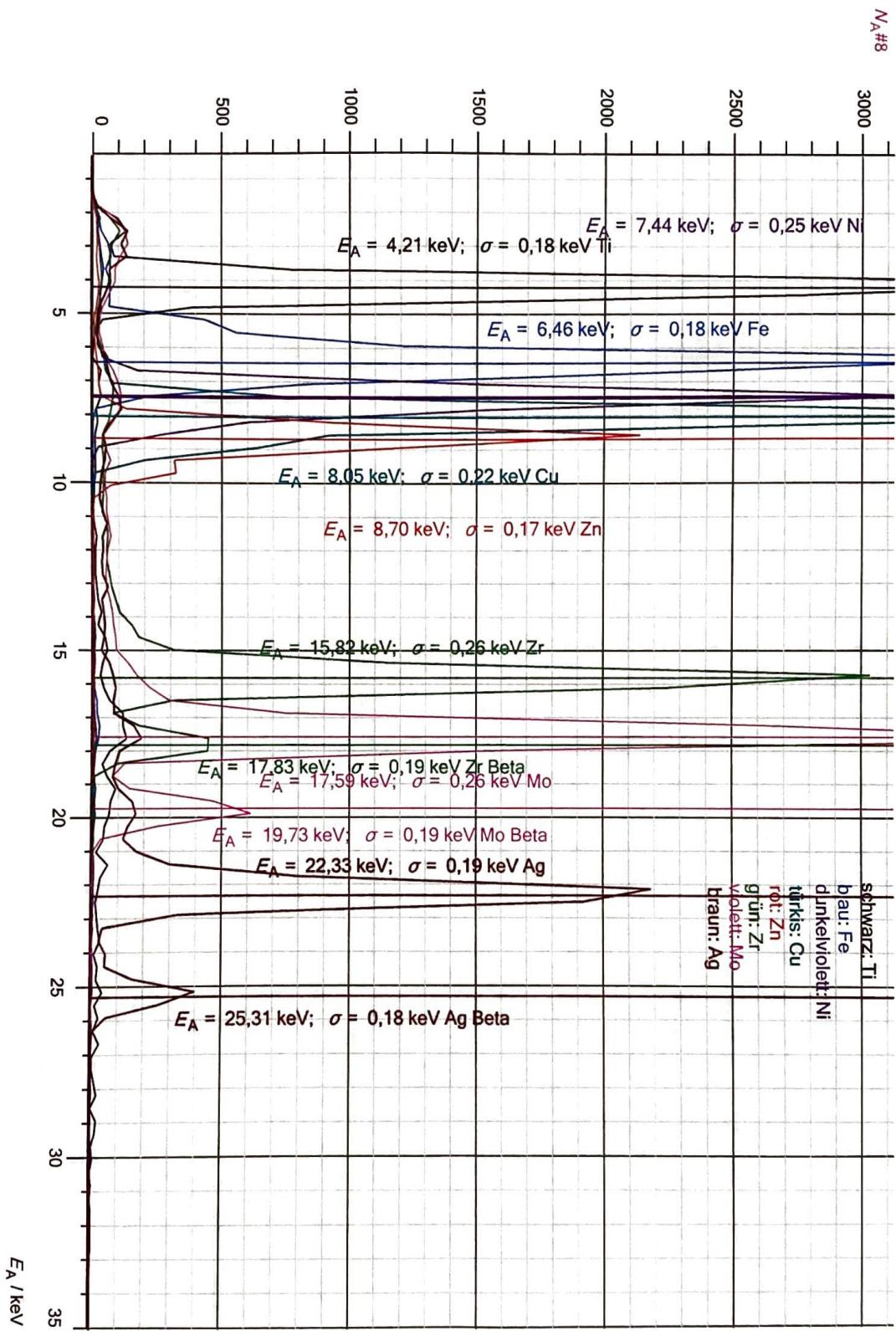
Standard - TV4 Spektrum Ti Fe Ni Cu Zn Zr Mo Ag kalibriert - CASSY Lab 2



Moseley - TV4 Moseley - CASSY Lab 2



Standard - TV4 Spektrum Ti Fe Ni Cu Zn Zr Mo Ag Beta kalibriert - CASSY Lab 2



Abschirmung - TV4 Abschirmung - CASSY Lab 2

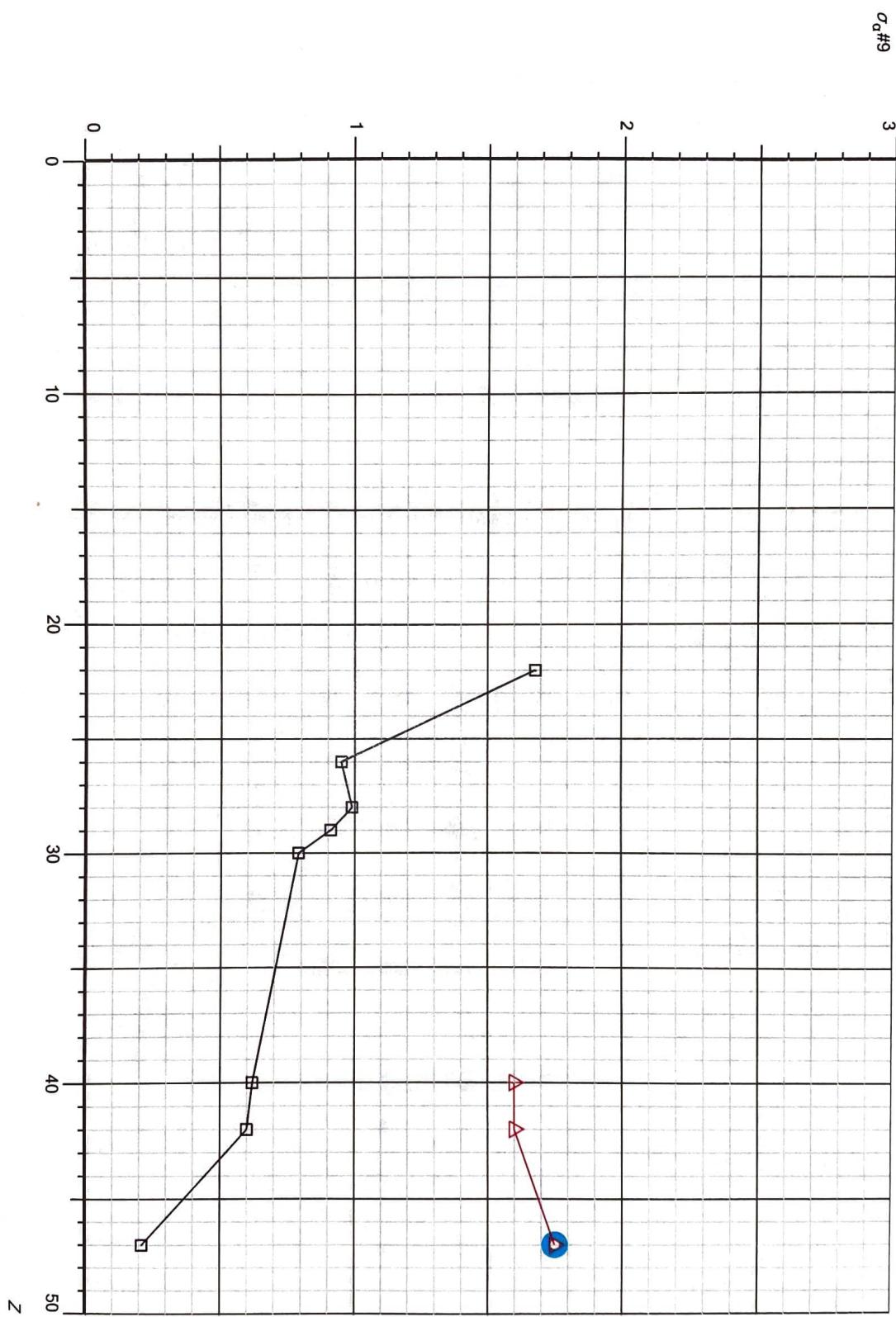


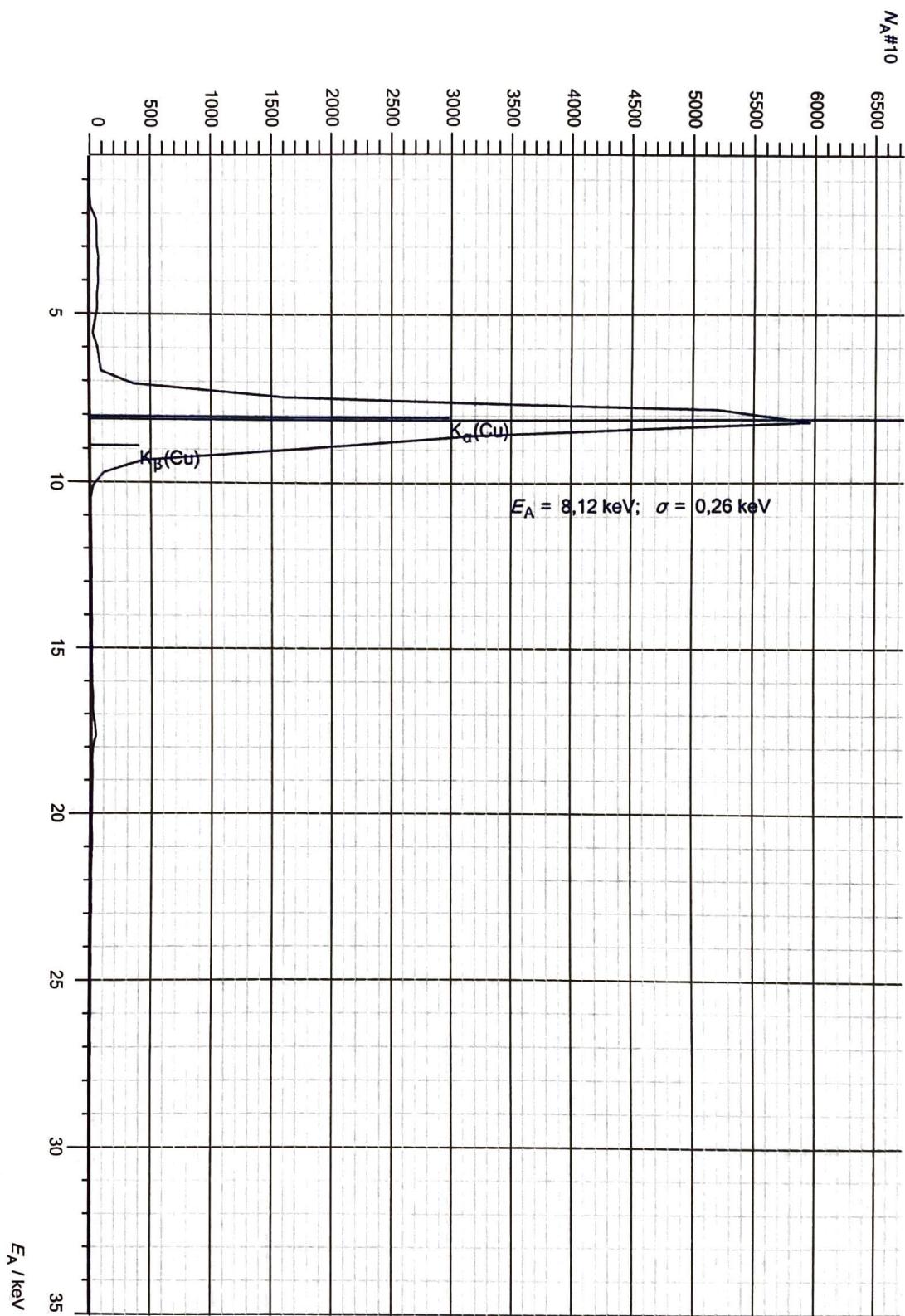
Tabelle1

Z	E (keV)	E/Ry	Sqrt(E/Ry)	Sigma 2,1	E beta	E/Ry	Sqrt(E/Ry)
Ti	22	4,21	309,5588235	17,59428383	1,683870988		
Fe	26	6,46	475	21,79449472	0,833885216		
Ni	28	7,44	547,0588235	23,38928865	0,992375804		
Cu	29	8,05	591,9117647	24,32923683	0,907017135		
Zn	30	8,7	639,7058824	25,2924076	0,794843324		
Zr	40	15,82	1163,235294	34,10623541	0,617511605	17,83	1311,029412 36,20814013 1,595467869
Mo	42	17,48	1285,294118	35,85099884	0,602832341	19,73	1450,735294 38,08851919 1,601024693
Ag	47	22,33	1641,911765	40,52051042	0,210944803	25,31	1861,029412 43,13965011 1,243491302

Ry (eV) 0,0136

470,4561
 73,50876563
 0,01360382

Sqrt(1-1/4) 0,75 0,866025404
 Sqrt(1-1/9) 0,888888889 0,942809042



Vorstand RUE

Sven Buchhe

26.08.2021

14¹⁵

Teilvorstand 1

Siehe Anschluss mit Peaches

Teilversch 2

Was ist das für ein Wörterbuch?

Telluride 3

V

CH

CH₂ CH₃

CH₂

CH₂

CH₂

CH₂

CH₂ CH₃

CH₂

CH₂

CH₂

Teilversuch 4

Feldmessung 1,2

Energiekalibrierung

$$Fe = n_A \cdot 20,2 \leftarrow \\ \sigma : 1 \approx 0,6$$

$$Mo \quad n_A = 49,6 \leftarrow \\ G \quad 0,5 \quad K_{\alpha}-\text{Linie}$$

K_β-Umw.

Element	Z	$\frac{E}{Ry}$	$\sigma_{2,1}$	E, keV	$\sqrt{\frac{E}{Ry}}$
grün	Ti	4,21	17,59	1,68	
blau	Fe	(6,4) 6,46 21,79	(1,69) 0,95		
blau	Ni	7,44	23,33	0,99	
grün	Cu	8,05	24,33	0,99	
rot	Zn	8,70	25,29	0,79	
grün	Zr	15,82	34,11	0,62	17,83 36,11
grün	Mo	17,48	35,85	0,60	19,73 38,09
grün	Mg	22,33	49,52	0,31	25,31 49,11

$$\sqrt{\frac{E}{Ry}} = (Z - \sigma_{2,1}) \cdot \sqrt{\left[\frac{1}{n_1^2} - \frac{1}{n_2^2} \right]}$$

$$Ry = R_{\infty} h c \approx 2,18 \cdot 10^{18} \text{ eV} \\ \approx 13,6 \text{ eV}$$

$$Z < 30 : \sqrt{\frac{E}{Ry}} = (Z - 1) \sqrt{\frac{2}{4}}$$

$$\sigma_{2,1} = n_2$$

$$\sqrt{\frac{E}{Ry}} = \sqrt{\left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)} + Z = Z - \frac{\frac{1}{n_1} - \frac{1}{n_2}}{\sqrt{1 - \frac{1}{4}}}$$

$$(x-1) \operatorname{Sqr}(3/4) \quad \left(z-1 \right) \sqrt{\left(\frac{1}{1} - \frac{1}{4} \right)} =$$

$$(x-1) \sqrt{\frac{3}{4}} = f(x) \quad f(z) \quad \text{Moseleg}$$

Teilversuch 5

2 € Münze:

1,50
1,60
1,24

LMU München
Physikalische Praktika
Versuch: RDC
Datum: 26.8.21
Betreuer: Edi Arstanbegovic