The primary target is not in and one magnet is off.

21:50 Magnt on.
We put target back. Driven as in page 15.
We scan by one. and check values of magnets → TA-S4

23:10 One dipole was off and also GTS2KS1
We turned them on. Everything looks fine now.
We open files.

Magneed. / Tesla:
0.90855
0.84224
0.64574
0.64525

24.03.2014
11:20 Beam req. OFF
~~Changing~~ removing the second Au target
11:21 Req ON (Ta 1) Au (2 g/cm²) 2) none)
11:22 HKR said "A Problem with some Soft/Hardware of Acc. Control"
People are informed should be repaired soon."
11:46 Beam back.
11:50 Stop. Empty Target frame.
11:53 Beam ok.

Stop 13:20
take out seetram
take out target (was #35)
close S1 slits
beam plug in.

24.3.2014
19:20
We load S426_19 from TA to S4.
We remove TA, S1 degrader, S2 degrader.
We put the current grids inside.
We had to put the setting of the first quadrupole triplet by hand.
Now all the magnets are fine.
19:55
We ask to copy the machine.
Our machine now is 7. All the programs changed to machine 7.
*To note: In machine 8 the beam was not centerd.
Plot attached in next page.

We centered the beam on target for machine 7 and remove the current grids.

open slits and check TPC

TPC 21 = -0.3
TPC 22 = +0.3
TPC 41: +3.4
TPC 42 = +2.8

We scale by -3.0 mm

Factor = 0.99953.

TPC 21 = -0.25 TPC 41 = -0.24

22 = +0.3 TPC 42 = -0.9

21:10. The save/load program crashed. We are waiting for experts to solve it.

By now we put a ^{7}Be 20 mg/cm^2 foil and open a second ladder for LYCCA calibration.

We deaccused in S2 to set the Finger detector.

We scale S2 - S4

$$\frac{10.6536}{10.6586} = 1$$

$$\frac{10.\cancel{8536}}{10.3850} = \frac{10.4871}{10.3850} = 1.009931$$

We high scaling is

$$\frac{10.9871}{10.3698} = 1.011312$$

To correct the wrong scaling we scale by ...

S426_22

scetiam SC21 3.2 mm Finger 1 mm

centered.

24. Mar 2014
20:48:25.00

FS

A, ζ	MeV/u	B·ρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS

Experimentplatz	HFS
Experimentnummer	S426
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ● aktiv ○ inaktiv	Acc	$Strom_{Ist}$	$Strom_{Soll}$	$Volt_{Ist}$	$Volt_{Soll}$	$B' \cdot l_{Ist}$	$B' \cdot l_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●○○○○○○○○○○○○○○○	S07	11.423	11.620	1.142	1.162	0.00523	0.00532	I->F	07FFFFFF	
GTE1QD11	●○○○○○○○○○○○○○○○	S07	51.690	51.656	1.880	1.878	-1.25495	-1.25504	I->F	07FFFFFF	
GTE1QD12	●○○○○○○○○○○○○○○○	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●○○○○○○○○○○○○○○○	S07	699.890	700.310	6.086	6.090	1.53226	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●●○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○○○○○○○○○○○○○○○○	S07	-2.933	-3.009	-0.293	-0.301	-0.00133	-0.00136	I->F	07FFFFFF	
GTS1QD11	○○○○○○○○○○○○○○○○	S07	162.520	162.515	5.417	5.417	6.27051	6.27171	I->F	07FFFFFF	
GTS1QD12	○○○○○○○○○○○○○○○○	S07	171.236	171.300	5.708	5.710	-6.60424	-6.60786	I->F	07FFFFFF	
GTS1MU2	○○○○○○○○○○○○○○○○	S07	319.254	319.341	5.805	5.806	1.53057	1.53122	I->F	07FFFFFF	
GTS2QT11	○○○○○○○○○○○○○○○○	S07	123.417	123.240	2.057	2.054	-2.41437	-2.41091	I->F	07FFFFFF	
GTS2QT12	○○○○○○○○○○○○○○○○	S07	294.076	293.940	4.901	4.899	6.86327	6.86010	I->F	07FFFFFF	
GTS2QT13	○○○○○○○○○○○○○○○○	S07	198.419	198.420	3.307	3.307	-3.88433	-3.88435	I->F	07FFFFFF	
GTS2KS1	●○○○○○○○○○○○○○○○	S07	2.283	2.297	0.269	0.270	0.29054	0.29238	I->F	07FFFFFF	
GTS3MU1	●●○○○○○○○○○○○○○○	S07	487.753	487.399	5.419	5.416	5.66337	5.57254	Hall	07FFFFFF	0.96135
GTS3MU1	●●○○○○○○○○○○○○○○	S07					5.57684		I>Bl	---"---	
GTS3MU1_0	●●○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●●○○○○○○○○○○○○○○	S07	16.213	16.211	1.907	1.907	2.06346	2.06320	I->F	07FFFFFF	
GTS3QD11	●●○○○○○○○○○○○○○○	S07	207.831	207.617	3.464	3.460	-4.06957	-4.06579	I->F	07FFFFFF	
GTS3QD12	●●○○○○○○○○○○○○○○	S07	130.595	130.555	2.177	2.176	2.55602	2.55521	I->F	07FFFFFF	
GTS3QD21	●●○○○○○○○○○○○○○○	S07	198.694	198.437	3.312	3.307	3.89217	3.88748	I->F	07FFFFFF	
GTS3KY1	●●○○○○○○○○○○○○○○	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●●○○○○○○○○○○○○○○	S07	224.677	224.599	3.745	3.743	-4.40204	-4.40090	I->F	07FFFFFF	
GTS3KS2	●●○○○○○○○○○○○○○○	S07	13.922	13.894	1.638	1.635	1.77194	1.76834	I->F	07FFFFFF	
GTS3MU2	●●○○○○○○○○○○○○○○	S07	490.060	488.084	5.445	5.423	-5.59167	-5.57254	Hall	07FFFFFF	
GTS3MU2	●●○○○○○○○○○○○○○○	S07					-5.59571		I>Bl	---"---	0.991931
GTS3KS3	●●○○○○○○○○○○○○○○	S07	0.457	0.438	0.054	0.051	0.05811	0.05569	I->F	07FFFFFF	
GTS3QT31	●●○○○○○○○○○○○○○○	S07	202.557	202.340	3.376	3.372	-3.97928	-3.97530	I->F	07FFFFFF	
GTS3QT32	●●○○○○○○○○○○○○○○	S07	325.553	325.495	5.426	5.425	7.61379	7.61340	I->F	07FFFFFF	
GTS3KY2	●●○○○○○○○○○○○○○○	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●●○○○○○○○○○○○○○○	S07	216.456	216.198	3.608	3.603	-4.25299	-4.24829	I->F	07FFFFFF	
GTS4QT11	●●○○○○○○○○○○○○○○	S07	210.450	210.286	3.507	3.505	-4.13265	-4.12979	I->F	07FFFFFF	
GTS4KY1	●●○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QT12	●●○○○○○○○○○○○○○○	S07	316.306	316.239	5.272	5.271	7.40174	7.40076	I->F	07FFFFFF	
GTS4QT13	●●○○○○○○○○○○○○○○	S07	194.903	194.821	3.248	3.247	-3.83278	-3.83146	I->F	07FFFFFF	
GTS4KS1	●●○○○○○○○○○○○○○○	S07	0.630	0.604	0.074	0.071	0.08023	0.07682	I->F	07FFFFFF	
GTS4MU1	●●○○○○○○○○○○○○○○	S07	475.283	475.346	5.281	5.282	-5.41894	-5.41236	Hall	07FFFFFF	0.91994
GTS4MU1	●●○○○○○○○○○○○○○○	S07					-5.41241		I>Bl	---"---	
GTS4KS2	●●○○○○○○○○○○○○○○	S07	13.040	13.048	1.534	1.535	1.65968	1.66066	I->F	07FFFFFF	
GTS4QD21	●●○○○○○○○○○○○○○○	S07	218.744	218.139	3.646	3.636	-4.29596	-4.28464	I->F	07FFFFFF	
GTS4KY2	●●○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●●○○○○○○○○○○○○○○	S07	193.146	192.690	3.219	3.211	3.79042	3.78182	I->F	07FFFFFF	
GTS4QD31	●●○○○○○○○○○○○○○○	S07	139.933	139.486	2.332	2.325	2.74217	2.73327	I->F	07FFFFFF	
GTS4QD32	●●○○○○○○○○○○○○○○	S07	209.314	208.915	3.489	3.482	-4.11937	-4.11188	I->F	07FFFFFF	
GTS4KS3	●●○○○○○○○○○○○○○○	S07	12.241	12.245	1.440	1.441	1.55800	1.55846	I->F	07FFFFFF	
GHFSMU1	●●○○○○○○○○○○○○○○	S07	473.992	473.792	5.267	5.264	5.41571	5.41236	Hall	07FFFFFF	
GHFSMU1	●●○○○○○○○○○○○○○○	S07					5.41447		I>Bl	---"---	0.91955
GHFSMU1_0	●●○○○○○○○○○○○○○○	S07	1.103		1.103		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●●○○○○○○○○○○○○○○	S07	0.130	0.046	0.015	0.005	0.01651	0.00579	I->F	07FFFFFF	
GHFSQT11	●●○○○○○○○○○○○○○○	S07	132.792	132.604	2.213	2.210	-2.61019	-2.60632	I->F	07FFFFFF	
GHFSQT12	●●○○○○○○○○○○○○○○	S07	273.952	273.771	4.566	4.563	6.41053	6.40534	I->F	07FFFFFF	
GHFSQT13	●●○○○○○○○○○○○○○○	S07	217.811	217.853	3.630	3.631	-4.27965	-4.28081	I->F	07FFFFFF	
GHFSKY1	●●○○○○○○○○○○○○○○	S07	-0.007	0.000	-0.003	0.000	0.00001	0.00000	I->F	07FFFFFF	

SIS–TS–HFS

Mar 2014 20:48:25.00

BS_{12} = 10.6586

BS_{24} = 10.3698

Ue scaled by -3 mm → It was the shift in the TPC

Factor = 0.99953

10.98217. Effective thickness of SC21 = 2.975 mm.

S426_23 SEETRAM FINGER 1mm TPC21 TPC22

CENTERED

24. Mar 2014
22:28:23.67

FS

A, ζ	MeV/u	B·ρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS

Experimentplatz	HFS
Experimentnummer	S430
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ● aktiv ○ inaktiv	Acc	$Strom_{Ist}$	$Strom_{Soll}$	$Volt_{Ist}$	$Volt_{Soll}$	$B' \cdot l_{Ist}$	$B' \cdot l_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●○○○○○○○○○○○○○○○	S07	11.472	11.620	1.147	1.162	0.00525	0.00532	I->F	07FFFFFF	
GTE1QD11	●○○○○○○○○○○○○○○○	S07	51.690	51.656	1.880	1.878	-1.25495	-1.25504	I->F	07FFFFFF	
GTE1QD12	●○○○○○○○○○○○○○○○	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●○○○○○○○○○○○○○○○	S07	699.785	700.310	6.085	6.090	1.53203	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●●○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○○○○○○○○○○○○○○○○	S07	-2.933	-3.009	-0.293	-0.301	-0.00133	-0.00136	I->F	07FFFFFF	
GTS1QD11	○○○○○○○○○○○○○○○○	S07	162.447	162.515	5.415	5.417	6.26771	6.27171	I->F	07FFFFFF	
GTS1QD12	○○○○○○○○○○○○○○○○	S07	171.236	171.300	5.708	5.710	-6.60424	-6.60786	I->F	07FFFFFF	
GTS1MU2	○○○○○○○○○○○○○○○○	S07	319.304	319.341	5.806	5.806	1.53081	1.53122	I->F	07FFFFFF	
GTS2QT11	○○○○○○○○○○○○○○○○	S07	123.435	123.251	2.057	2.054	-2.41473	-2.41091	I->F	07FFFFFF	
GTS2QT12	○○○○○○○○○○○○○○○○	S07	294.095	293.959	4.902	4.899	6.86370	6.86010	I->F	07FFFFFF	
GTS2QT13	○○○○○○○○○○○○○○○○	S07	198.383	198.401	3.306	3.307	-3.88361	-3.88435	I->F	07FFFFFF	
GTS2KS1	●○○○○○○○○○○○○○○○	S07	2.283	2.297	0.269	0.270	0.29054	0.29238	I->F	07FFFFFF	
GTS3MU1	●●○○○○○○○○○○○○○○	S07	487.753	487.399	5.419	5.416	5.66243	5.57254	Hall	07FFFFFF	0.96125
GTS3MU1	●●○○○○○○○○○○○○○○	S07					5.57778		I>Bl	---"---	
GTS3MU1_0	●●○○○○○○○○○○○○○○	S07	0.005		0.005		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●●○○○○○○○○○○○○○○	S07	16.229	16.211	1.909	1.907	2.06544	2.06320	I->F	07FFFFFF	
GTS3QD11	●●○○○○○○○○○○○○○○	S07	207.813	207.600	3.464	3.460	-4.06922	-4.06504	I->F	07FFFFFF	
GTS3QD12	●●○○○○○○○○○○○○○○	S07	130.558	130.555	2.176	2.176	2.55531	2.55521	I->F	07FFFFFF	
GTS3QD21	●●○○○○○○○○○○○○○○	S07	198.694	198.437	3.312	3.307	3.89217	3.88748	I->F	07FFFFFF	
GTS3KY1	●●○○○○○○○○○○○○○○	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●●○○○○○○○○○○○○○○	S07	224.677	224.599	3.745	3.743	-4.40204	-4.40090	I->F	07FFFFFF	
GTS3KS2	●●○○○○○○○○○○○○○○	S07	13.920	13.894	1.638	1.635	1.77161	1.76834	I->F	07FFFFFF	
GTS3MU2	●●○○○○○○○○○○○○○○	S07	490.060	488.084	5.445	5.423	-5.59167	-5.57254	Hall	07FFFFFF	
GTS3MU2	●●○○○○○○○○○○○○○○	S07					-5.59540		I>Bl	---"---	0.94934
GTS3KS3	●●○○○○○○○○○○○○○○	S07	0.457	0.438	0.054	0.051	0.05811	0.05569	I->F	07FFFFFF	
GTS3QT31	●●○○○○○○○○○○○○○○	S07	202.576	202.340	3.376	3.372	-3.97964	-3.97530	I->F	07FFFFFF	
GTS3QT32	●●○○○○○○○○○○○○○○	S07	325.535	325.495	5.426	5.425	7.61337	7.61340	I->F	07FFFFFF	
GTS3KY2	●●○○○○○○○○○○○○○○	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●●○○○○○○○○○○○○○○	S07	216.456	216.198	3.608	3.603	-4.25299	-4.24829	I->F	07FFFFFF	
GTS4QT11	●●○○○○○○○○○○○○○○	S07	212.738	212.564	3.546	3.543	-4.17757	-4.17449	I->F	07FFFFFF	
GTS4KY1	●●○○○○○○○○○○○○○○	S07	0.030	0.000	0.014	0.000	0.00003	0.00000	I->F	07FFFFFF	
GTS4QT12	●●○○○○○○○○○○○○○○	S07	319.730	319.673	5.329	5.328	7.48149	7.48087	I->F	07FFFFFF	
GTS4QT13	●●○○○○○○○○○○○○○○	S07	197.046	196.932	3.284	3.282	-3.87486	-3.87294	I->F	07FFFFFF	
GTS4KS1	●●○○○○○○○○○○○○○○	S07	0.636	0.610	0.075	0.072	0.08089	0.07765	I->F	07FFFFFF	
GTS4MU1	●●○○○○○○○○○○○○○○	S07	480.474	480.500	5.339	5.339	-5.47766	-5.47095	Hall	07FFFFFF	
GTS4MU1	●●○○○○○○○○○○○○○○	S07					-5.47018		I>Bl	---"---	0.92994
GTS4KS2	●●○○○○○○○○○○○○○○	S07	13.186	13.189	1.551	1.552	1.67817	1.67863	I->F	07FFFFFF	
GTS4QD21	●●○○○○○○○○○○○○○○	S07	221.088	220.501	3.685	3.675	-4.34198	-4.33103	I->F	07FFFFFF	
GTS4KY2	●●○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●●○○○○○○○○○○○○○○	S07	195.233	194.776	3.254	3.246	3.83136	3.82276	I->F	07FFFFFF	
GTS4QD31	●●○○○○○○○○○○○○○○	S07	141.453	140.995	2.358	2.350	2.77195	2.76286	I->F	07FFFFFF	
GTS4QD32	●●○○○○○○○○○○○○○○	S07	211.585	211.182	3.526	3.520	-4.16395	-4.15639	I->F	07FFFFFF	
GTS4KS3	●●○○○○○○○○○○○○○○	S07	12.374	12.378	1.456	1.456	1.57484	1.57534	I->F	07FFFFFF	
GHFSMU1	●●○○○○○○○○○○○○○○	S07	479.376	478.939	5.326	5.322	5.47453	5.47095	Hall	07FFFFFF	0.92945
GHFSMU1	●●○○○○○○○○○○○○○○	S07					5.47514		I>Bl	---"---	
GHFSMU1_0	●●○○○○○○○○○○○○○○	S07	1.091		1.091		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●●○○○○○○○○○○○○○○	S07	0.127	0.046	0.015	0.005	0.01618	0.00586	I->F	07FFFFFF	
GHFSQT11	●●○○○○○○○○○○○○○○	S07	134.220	134.041	2.237	2.234	-2.63822	-2.63453	I->F	07FFFFFF	
GHFSQT12	●●○○○○○○○○○○○○○○	S07	276.864	276.740	4.614	4.612	6.47847	6.47468	I->F	07FFFFFF	
GHFSQT13	●●○○○○○○○○○○○○○○	S07	220.173	220.214	3.670	3.670	-4.32602	-4.32715	I->F	07FFFFFF	
GHFSKY1	●●○○○○○○○○○○○○○○	S07	-0.008	0.000	-0.004	0.000	0.00001	0.00000	I->F	07FFFFFF	

BS_{12} = 10.6586

BS_{24} = 10.4871

Truth: $BP_{12} = 10.6586$ $BP_{54} = \cancel{10.3746}\ 10.4871$

TA-S1 $\frac{9.4498}{10.6586} = 0.8865892$ To go to ^{66}Cu

S1-S2 $\frac{8.9418}{10.6586} = 0.838928$

S2-S4 $\cancel{\frac{7.2068}{10.3746} = 0.694857}$

$\frac{7.2068}{10.4871} = 0.687206$

Put in S4 degrader: 5.5 g/cm² → HFSED3V0: 340.8

Plastic target in: | 2 p/p −1322
1 p/p 0

→ Got isomers. AoQ is correct.

For ^{64}Cu we scal.

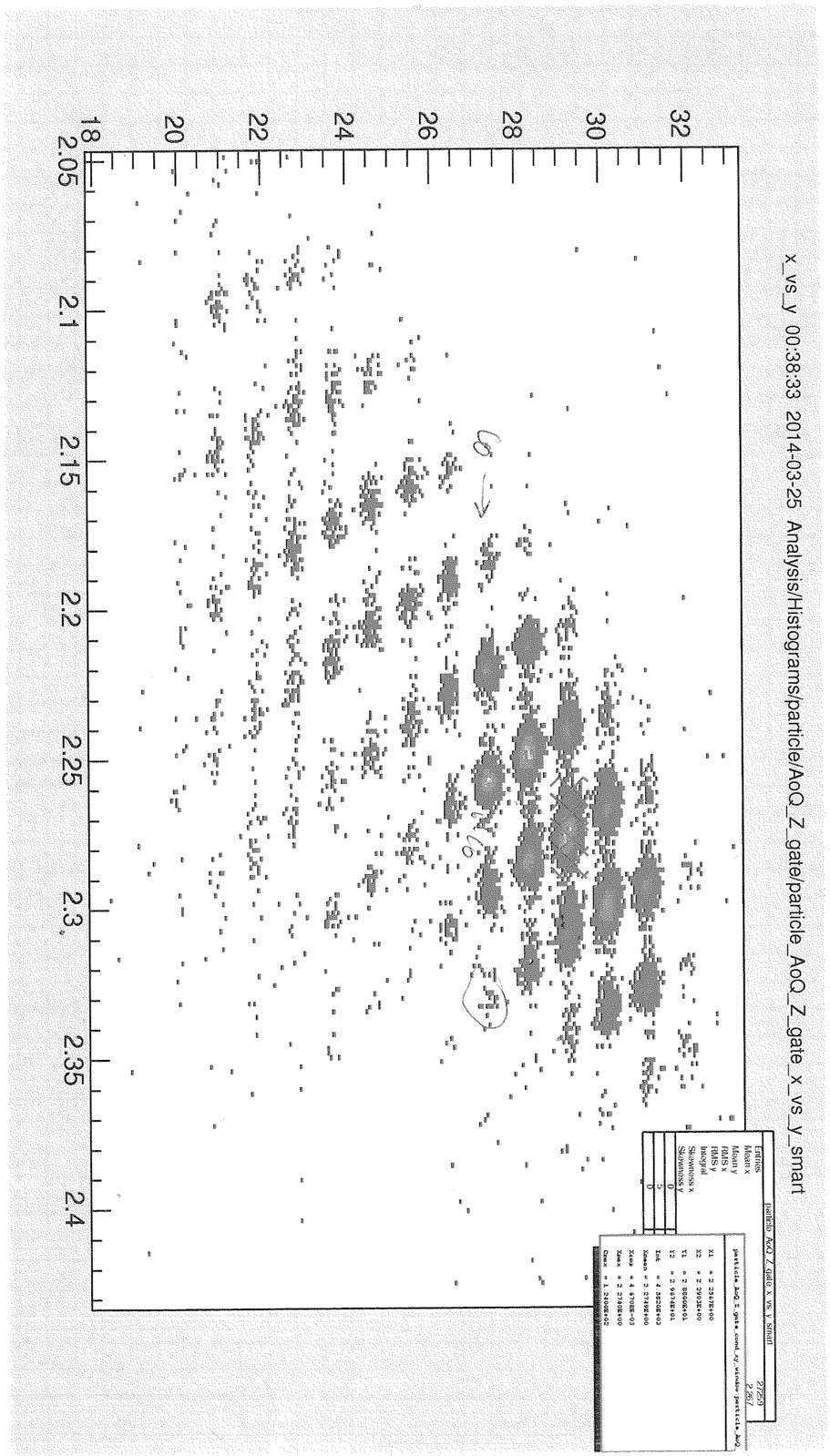
1 $\frac{9.8731}{9.4498} = 1.044799$

2 $\frac{9.4038}{8.9418} = 1.011141$

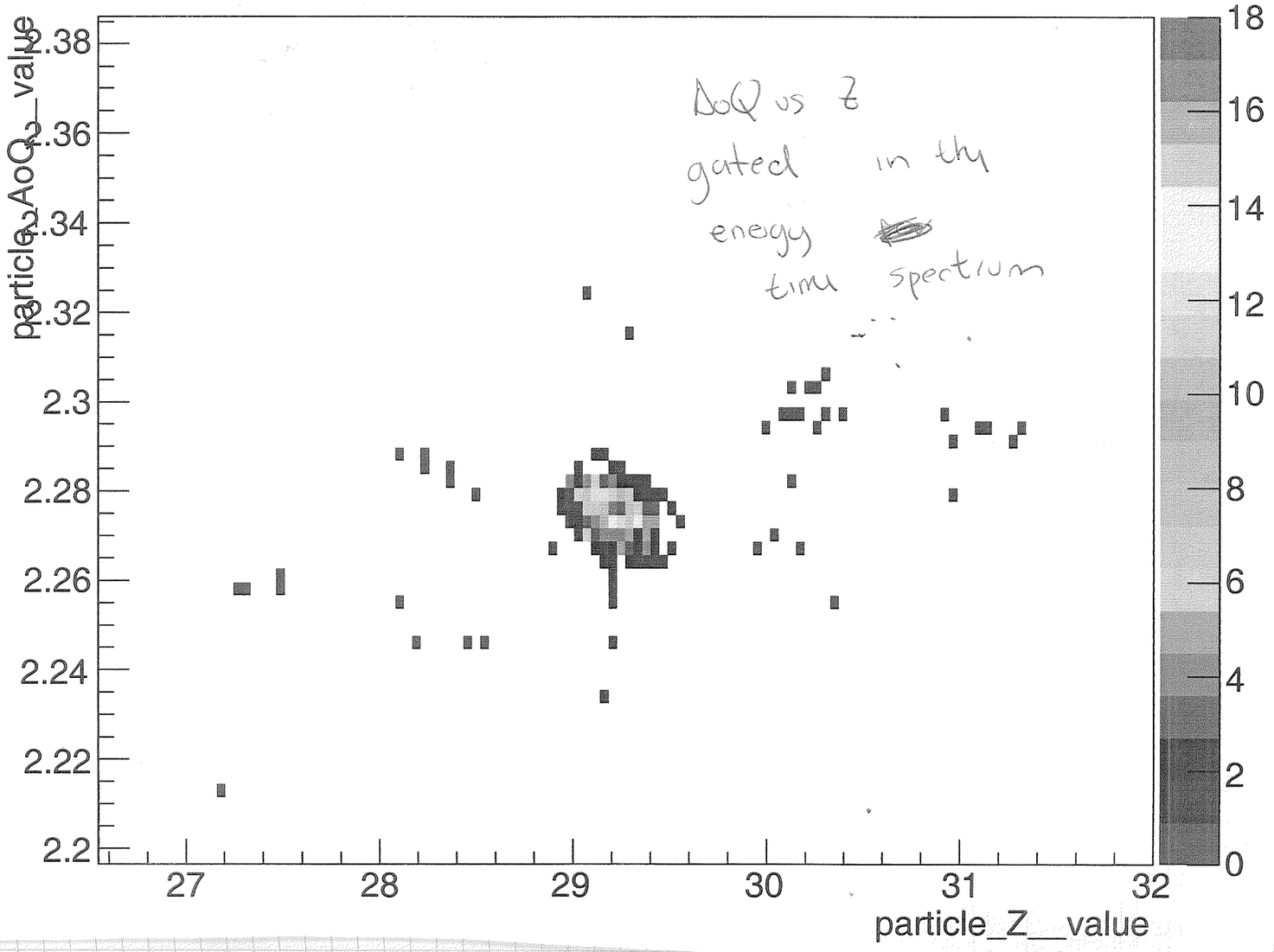
3 $\frac{7.8357}{\cancel{7.8310}\ 7.2068} = \cancel{1.08661}\ 1.08726$

$\frac{7.8357}{7.8310} = 1.00060$

we scal again by this.



66Cu setting

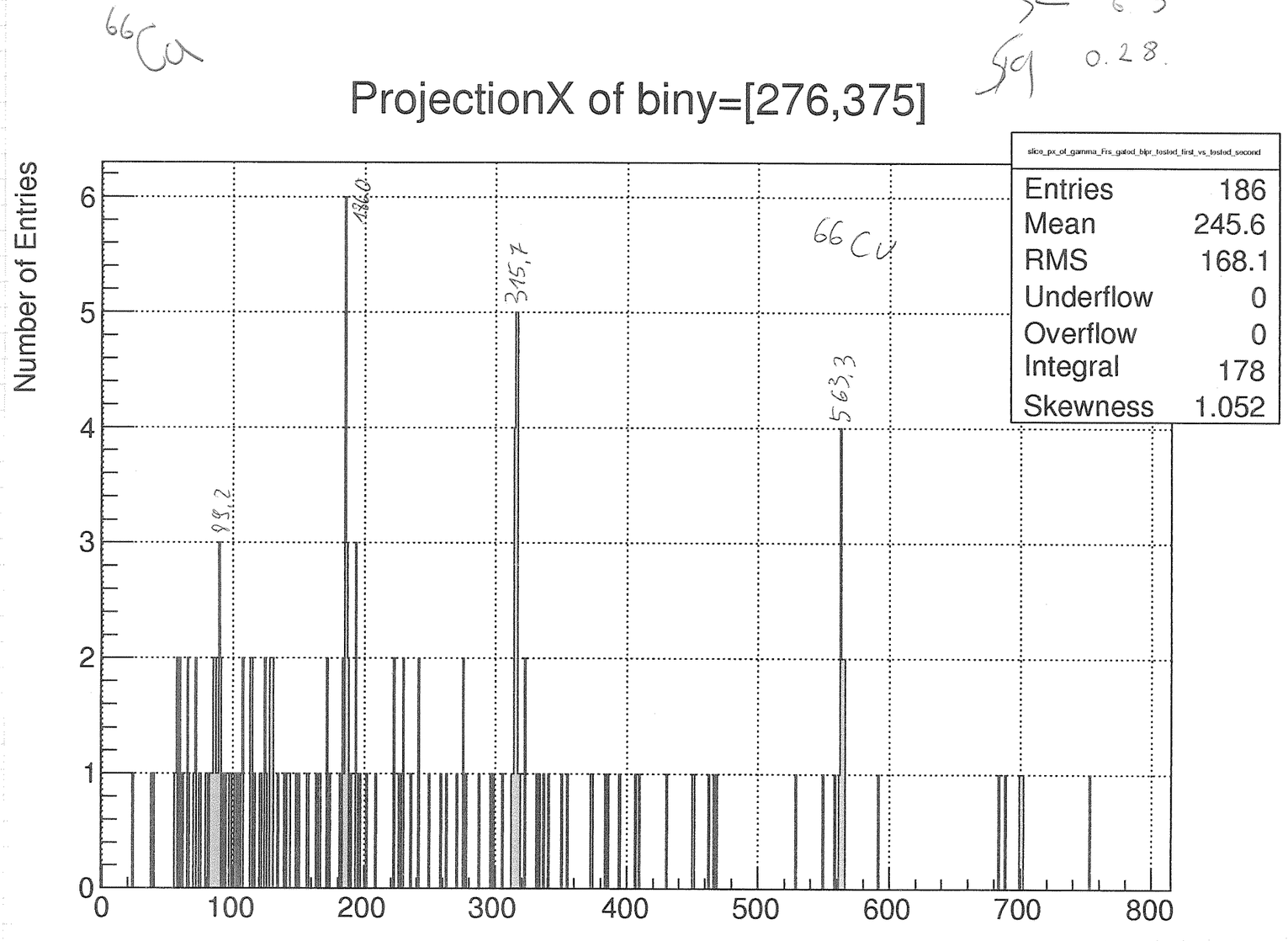


AoQ vs Z gated in thy energy time spectrum

^{66}Cu

σ_Z 6.3

σ_{AQ} 0.28



Position> gated in AoQ vs Z

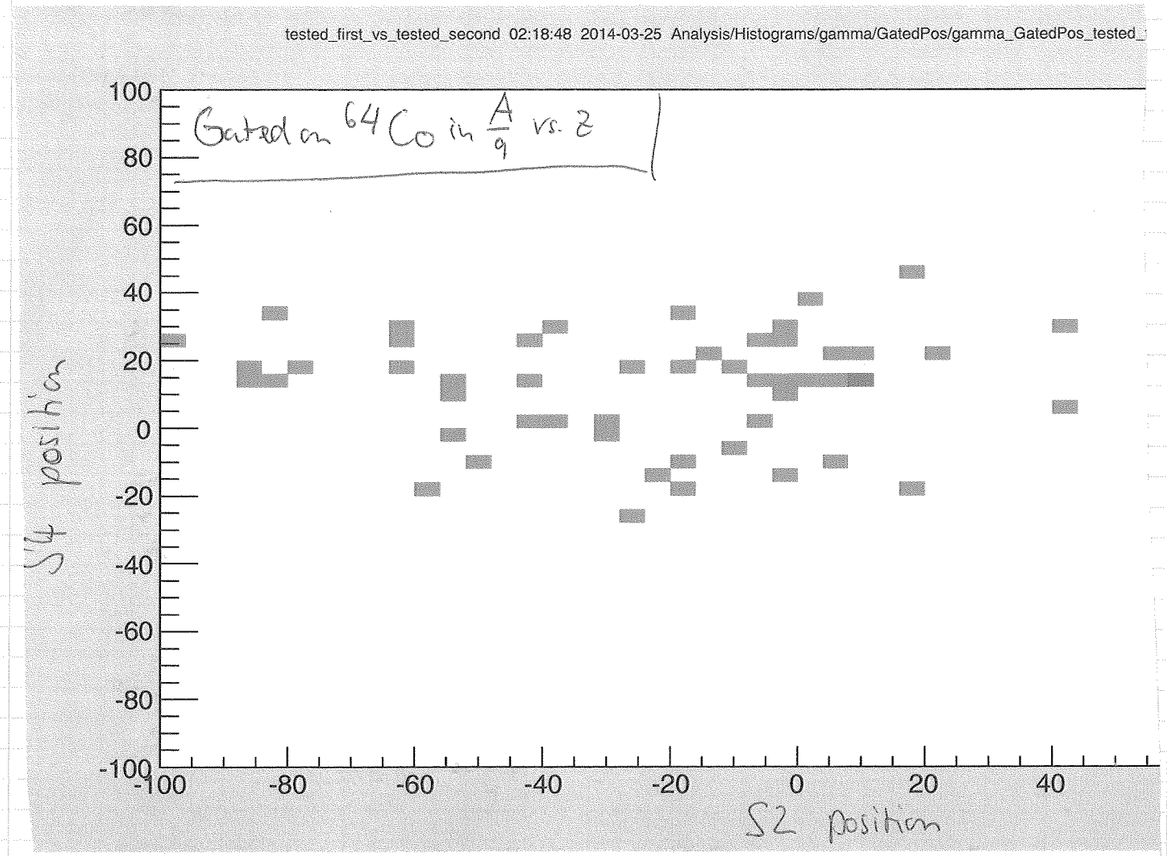
σ_Z = 6.3 mm

σ_A = 0.28 mm

So, to go to ^{69}Co we scale by 1.00060

We are off, Scale by -10.0mm

Factor = 0.99842



This is before scaling by -10 mm

5426-24

zeteam TD: 2.5 g/S1: 2 g/S2: 5 g/cm² centered ^{69}Co

SC21, Finger.

25. Mar 2014
02:28:02.72

FS

A, ζ	MeV/u	Bρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS

Experimentplatz	HFS
Experimentnummer	S430
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ● aktiv ○ inaktiv	Acc	$Strom_{Ist}$	$Strom_{Soll}$	$Volt_{Ist}$	$Volt_{Soll}$	$B' \cdot l_{Ist}$	$B' \cdot l_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●○○○○○○○○○○○○○○○	S07	11.423	11.620	1.142	1.162	0.00523	0.00532	I->F	07FFFFFF	
GTE1QD11	●○○○○○○○○○○○○○○○	S07	51.623	51.656	1.877	1.878	-1.25332	-1.25504	I->F	07FFFFFF	
GTE1QD12	●○○○○○○○○○○○○○○○	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●○○○○○○○○○○○○○○○	S07	699.855	700.310	6.086	6.090	1.53218	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●○○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○●○○○○○○○○○○○○○○	S07	-2.982	-3.009	-0.298	-0.301	-0.00135	-0.00136	I->F	07FFFFFF	
GTS1QD11	○●○○○○○○○○○○○○○○	S07	162.520	162.515	5.417	5.417	6.27051	6.27171	I->F	07FFFFFF	
GTS1QD12	○●○○○○○○○○○○○○○○	S07	171.236	171.300	5.708	5.710	-6.60424	-6.60786	I->F	07FFFFFF	
GTS1MU2	○●○○○○○○○○○○○○○○	S07	319.304	319.341	5.806	5.806	1.53081	1.53122	I->F	07FFFFFF	
GTS2QT11	○●○○○○○○○○○○○○○○	S07	114.335	114.166	1.906	1.903	-2.23679	-2.23323	I->F	07FFFFFF	
GTS2QT12	○●○○○○○○○○○○○○○○	S07	272.414	272.262	4.540	4.538	6.35912	6.35452	I->F	07FFFFFF	
GTS2QT13	○●○○○○○○○○○○○○○○	S07	183.789	183.798	3.063	3.063	-3.59762	-3.59807	I->F	07FFFFFF	
GTS2KS1	●○○○○○○○○○○○○○○○	S07	2.112	2.128	0.248	0.250	0.26875	0.27083	I->F	07FFFFFF	
GTS3MU1	●○○○○○○○○○○○○○○○	S07	451.799	451.450	5.020	5.016	5.24358	5.16184	Hall	07FFFFFF	0.89025
GTS3MU1	●○○○○○○○○○○○○○○○	S07					5.16609		I>Bl	---"---	
GTS3MU1_0	●○○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●○○○○○○○○○○○○○○○	S07	15.022	15.016	1.767	1.767	1.91192	1.91114	I->F	07FFFFFF	
GTS3QD11	●○○○○○○○○○○○○○○○	S07	192.523	192.302	3.209	3.205	-3.76944	-3.76545	I->F	07FFFFFF	
GTS3QD12	●○○○○○○○○○○○○○○○	S07	120.963	120.937	2.016	2.016	2.36757	2.36689	I->F	07FFFFFF	
GTS3QD21	●○○○○○○○○○○○○○○○	S07	168.700	168.422	2.812	2.807	3.30386	3.29854	I->F	07FFFFFF	
GTS3KY1	●○○○○○○○○○○○○○○○	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●○○○○○○○○○○○○○○○	S07	190.692	190.610	3.178	3.177	-3.73546	-3.73417	I->F	07FFFFFF	
GTS3KS2	●○○○○○○○○○○○○○○○	S07	11.821	11.789	1.391	1.387	1.50451	1.50044	I->F	07FFFFFF	
GTS3MU2	●○○○○○○○○○○○○○○○	S07	415.680	413.877	4.619	4.599	-4.74427	-4.72831	Hall	07FFFFFF	0.80549
GTS3MU2	●○○○○○○○○○○○○○○○	S07					-4.74900		I>Bl	---"---	
GTS3KS3	●○○○○○○○○○○○○○○○	S07	0.392	0.371	0.046	0.044	0.04985	0.04726	I->F	07FFFFFF	
GTS3QT31	●○○○○○○○○○○○○○○○	S07	171.923	171.681	2.865	2.861	-3.37766	-3.37305	I->F	07FFFFFF	
GTS3QT32	●○○○○○○○○○○○○○○○	S07	276.186	276.085	4.603	4.601	6.46329	6.45999	I->F	07FFFFFF	
GTS3KY2	●○○○○○○○○○○○○○○○	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●○○○○○○○○○○○○○○○	S07	183.697	183.429	3.062	3.057	-3.60972	-3.60468	I->F	07FFFFFF	
GTS4QT11	●○○○○○○○○○○○○○○○	S07	158.757	158.565	2.646	2.643	-3.11788	-3.11416	I->F	07FFFFFF	
GTS4KY1	●○○○○○○○○○○○○○○○	S07	0.010	0.000	0.005	0.000	0.00001	0.00000	I->F	07FFFFFF	
GTS4QT12	●○○○○○○○○○○○○○○○	S07	238.374	238.278	3.973	3.971	5.58320	5.58071	I->F	07FFFFFF	
GTS4QT13	●○○○○○○○○○○○○○○○	S07	147.038	146.883	2.451	2.448	-2.89228	-2.88920	I->F	07FFFFFF	
GTS4KS1	●○○○○○○○○○○○○○○○	S07	0.480	0.455	0.056	0.054	0.06108	0.05793	I->F	07FFFFFF	
GTS4MU1	●○○○○○○○○○○○○○○○	S07	358.522	358.540	3.984	3.984	-4.08832	-4.08132	Hall	07FFFFFF	0.69414
GTS4MU1	●○○○○○○○○○○○○○○○	S07					-4.07640		I>Bl	---"---	
GTS4KS2	●○○○○○○○○○○○○○○○	S07	9.837	9.839	1.157	1.158	1.25194	1.25226	I->F	07FFFFFF	
GTS4QD21	●○○○○○○○○○○○○○○○	S07	165.111	164.493	2.752	2.742	-3.24291	-3.23093	I->F	07FFFFFF	
GTS4KY2	●○○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●○○○○○○○○○○○○○○○	S07	145.793	145.291	2.430	2.422	2.86168	2.85117	I->F	07FFFFFF	
GTS4QD31	●○○○○○○○○○○○○○○○	S07	105.655	105.174	1.761	1.753	2.07085	2.06109	I->F	07FFFFFF	
GTS4QD32	●○○○○○○○○○○○○○○○	S07	157.878	157.457	2.631	2.624	-3.10890	-3.10066	I->F	07FFFFFF	
GTS4KS3	●○○○○○○○○○○○○○○○	S07	9.232	9.234	1.086	1.086	1.17502	1.17520	I->F	07FFFFFF	
GHFSMU1	●○○○○○○○○○○○○○○○	S07	357.506	357.201	3.972	3.969	4.08446	4.08132	Hall	07FFFFFF	0.69355
GHFSMU1	●○○○○○○○○○○○○○○○	S07					4.08651		I>Bl	---"---	
GHFSMU1_0	●○○○○○○○○○○○○○○○	S07	1.098		1.098		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●○○○○○○○○○○○○○○○	S07	0.117	0.034	0.014	0.004	0.01486	0.00437	I->F	07FFFFFF	
GHFSQT11	●○○○○○○○○○○○○○○○	S07	100.162	99.946	1.669	1.666	-1.96992	-1.96535	I->F	07FFFFFF	
GHFSQT12	●○○○○○○○○○○○○○○○	S07	206.458	206.254	3.441	3.438	4.83447	4.83009	I->F	07FFFFFF	
GHFSQT13	●○○○○○○○○○○○○○○○	S07	164.251	164.259	2.738	2.738	-3.22779	-3.22804	I->F	07FFFFFF	
GHFSKY1	●○○○○○○○○○○○○○○○	S07	-0.008	0.000	-0.004	0.000	0.00001	0.00000	I->F	07FFFFFF	

SIS-TS-HFS

25. Mar 2014 02:28:02.72

scale:

1: $\frac{10.2759}{9.8731} = 1.040798$

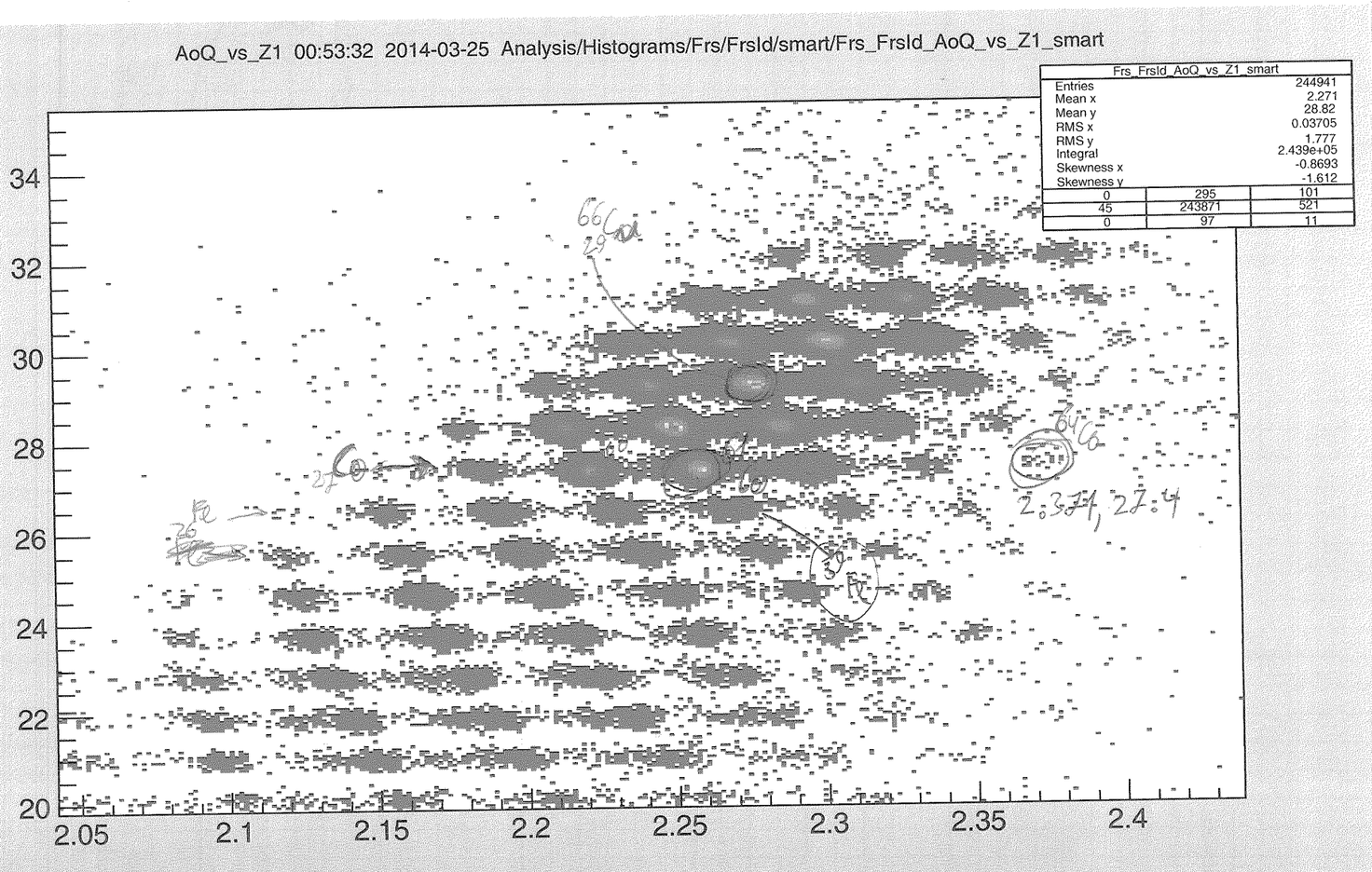
2: $\frac{9.4038}{9.4035} \cdot \frac{9.8263}{9.4038} = 1.044.93$

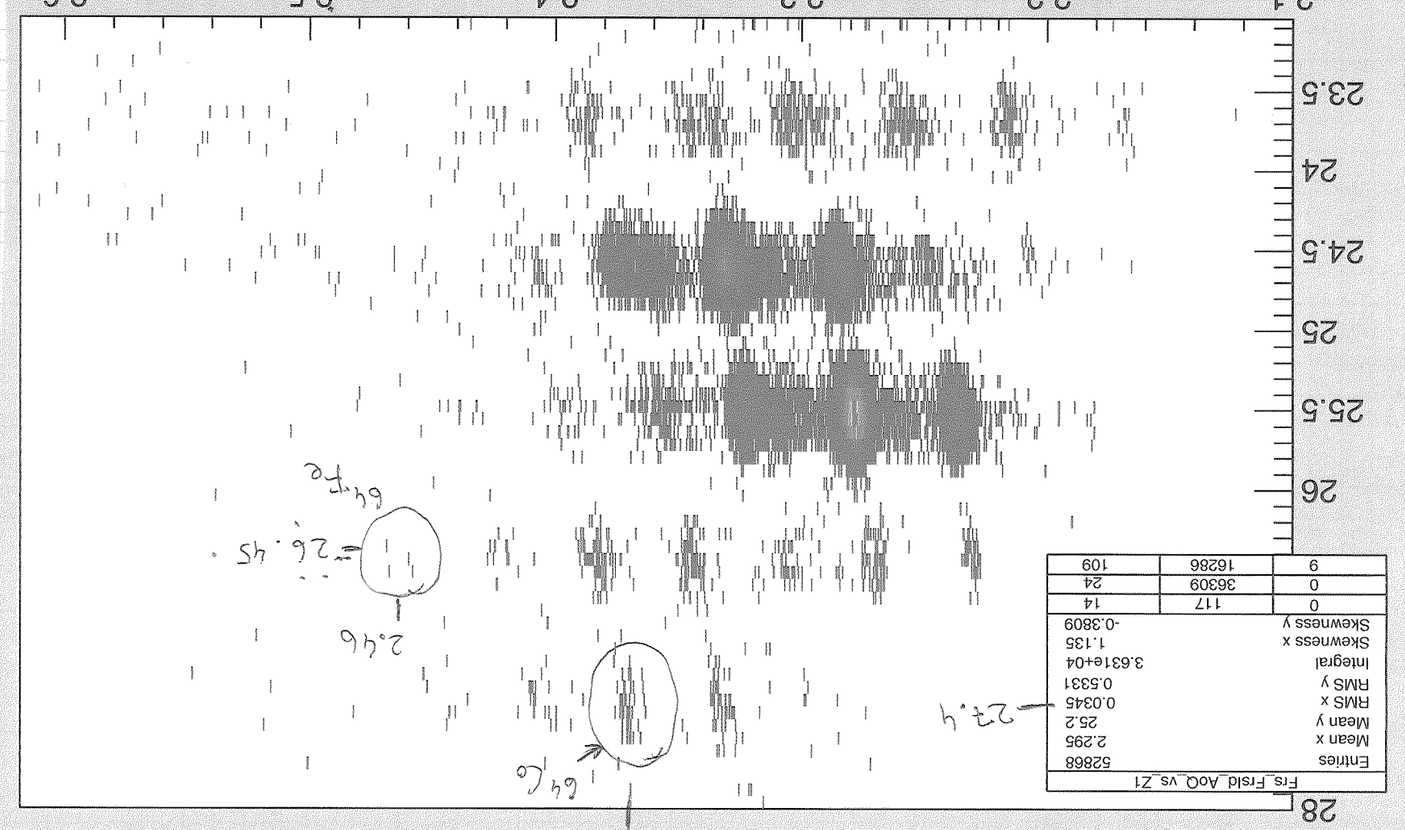
3, 4: $\frac{8.3373}{7.8357} = 1.06401$

^{66}Cu - empty

(27.37, 2.37)

^{64}Fe (26.462, 26.45)





66Cu : Z = 29
AoQ = 2.2759

2:40 We take out S4 digrader and put the prodoction target.

We set new slits.

S426-25

sect.am. TD: 2.5 g/cm² S1: 2 g/cm² SC21: 3.1 mm

S2: 5 g/cm² Finger 1mm. ^{64}Fe

25. Mar 2014
03:56:36.16

FS

A, ζ	MeV/u	B·ρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS	
Experimentplatz	HFS
Experimentnummer	S430
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ● aktiv ○ inaktiv	Acc	Strom$_{Ist}$	Strom$_{Soll}$	Volt$_{Ist}$	Volt$_{Soll}$	B′ · l$_{Ist}$	B′ · l$_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	11.423	11.620	1.142	1.162	0.00523	0.00532	I->F	07FFFFFF	
GTE1QD11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	51.690	51.656	1.880	1.878	-1.25495	-1.25504	I->F	07FFFFFF	
GTE1QD12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	699.855	700.310	6.086	6.090	1.53218	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-2.933	-3.009	-0.293	-0.301	-0.00133	-0.00136	I->F	07FFFFFF	
GTS1QD11	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	162.520	162.515	5.417	5.417	6.27051	6.27171	I->F	07FFFFFF	
GTS1QD12	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	171.236	171.300	5.708	5.710	-6.60424	-6.60786	I->F	07FFFFFF	
GTS1MU2	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	319.254	319.341	5.805	5.806	1.53057	1.53122	I->F	07FFFFFF	
GTS2QT11	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	119.004	118.824	1.983	1.980	-2.32808	-2.32432	I->F	07FFFFFF	
GTS2QT12	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	283.511	283.384	4.725	4.723	6.61751	6.61372	I->F	07FFFFFF	
GTS2QT13	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	191.259	191.285	3.188	3.188	-3.74401	-3.74484	I->F	07FFFFFF	
GTS2KS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	2.200	2.215	0.259	0.261	0.27997	0.28188	I->F	07FFFFFF	
GTS3MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	470.367	469.873	5.226	5.221	5.45851	5.37239	Hall	07FFFFFF	
GTS3MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					5.37641		I>Bl	---"---	0.92665
GTS3MU1_0	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.002		0.002		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	15.640	15.629	1.840	1.839	1.99050	1.98909	I->F	07FFFFFF	
GTS3QD11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	200.360	200.135	3.339	3.336	-3.92309	-3.91904	I->F	07FFFFFF	
GTS3QD12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	125.889	125.868	2.098	2.098	2.46394	2.46344	I->F	07FFFFFF	
GTS3QD21	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	176.226	175.976	2.937	2.933	3.45144	3.44674	I->F	07FFFFFF	
GTS3KY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	199.243	199.163	3.321	3.319	-3.90316	-3.90195	I->F	07FFFFFF	
GTS3KS2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	12.348	12.319	1.453	1.449	1.57153	1.56785	I->F	07FFFFFF	
GTS3MU2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	434.358	432.527	4.826	4.806	-4.95751	-4.94075	Hall	07FFFFFF	
GTS3MU2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					-4.96183		I>Bl	---"---	0.841164
GTS3KS3	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.407	0.388	0.048	0.046	0.05183	0.04938	I->F	07FFFFFF	
GTS3QT31	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	179.632	179.395	2.994	2.990	-3.52907	-3.52460	I->F	07FFFFFF	
GTS3QT32	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	288.565	288.507	4.809	4.808	6.75216	6.75023	I->F	07FFFFFF	
GTS3KY2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	191.919	191.673	3.199	3.195	-3.77119	-3.76664	I->F	07FFFFFF	
GTS4QT11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	168.902	168.715	2.815	2.812	-3.31704	-3.31350	I->F	07FFFFFF	
GTS4KY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.010	0.000	0.005	0.000	0.00001	0.00000	I->F	07FFFFFF	
GTS4QT12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	253.719	253.614	4.229	4.227	5.94114	5.93793	I->F	07FFFFFF	
GTS4QT13	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	156.359	156.291	2.606	2.605	-3.07542	-3.07414	I->F	07FFFFFF	
GTS4KS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.508	0.484	0.060	0.057	0.06471	0.06164	I->F	07FFFFFF	
GTS4MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	381.484	381.435	4.239	4.238	-4.34897	-4.34256	Hall	07FFFFFF	
GTS4MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					-4.34220		I>Bl	---"---	0.73834
GTS4KS2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	10.459	10.469	1.231	1.232	1.33118	1.33241	I->F	07FFFFFF	
GTS4QD21	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	175.622	175.021	2.927	2.917	-3.44925	-3.43775	I->F	07FFFFFF	
GTS4KY2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	155.040	154.595	2.584	2.577	3.04303	3.03431	I->F	07FFFFFF	
GTS4QD31	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	112.357	111.913	1.873	1.865	2.20204	2.19302	I->F	07FFFFFF	
GTS4QD32	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	167.949	167.552	2.799	2.793	-3.30683	-3.29913	I->F	07FFFFFF	
GTS4KS3	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	9.821	9.825	1.155	1.156	1.24996	1.25042	I->F	07FFFFFF	
GHFSMU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	380.523	380.049	4.228	4.223	4.34605	4.34256	Hall	07FFFFFF	
GHFSMU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					4.34769		I>Bl	---"---	0.73785
GHFSMU1_0	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	1.096		1.096		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.114	0.037	0.013	0.004	0.01453	0.00465	I->F	07FFFFFF	
GHFSQT11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	106.552	106.359	1.776	1.773	-2.09528	-2.09115	I->F	07FFFFFF	
GHFSQT12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	219.660	219.484	3.661	3.658	5.14317	5.13927	I->F	07FFFFFF	
GHFSQT13	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	174.761	174.775	2.913	2.913	-3.43424	-3.43467	I->F	07FFFFFF	
GHFSKY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-0.009	0.000	-0.004	0.000	0.00001	0.00000	I->F	07FFFFFF	

SIS–TS–HFS

Mar 2014 03:56:36.16

For ^{66}Cu without S1 digrader. We load S296_23 and scale by 1.

BS_1 = 9.4498
BS_2
BS_{34} 7.8373

✓* Angl: Achromatic = -8.6461
Monochromatic = -25.7942

scaling from S426_23

1: $\frac{9.4498}{10.6586} = 0.88659$

Angl: ~~119.1 grad~~ 60.9 grad
T53ED7D5

2 $\frac{9.4498}{10.6586} = $ "

3.4 $\frac{7.8373}{10.4871} = 0.74733$

This we didn't scale

4.10 We are not scaling yet. First we check again the centering of the beam on target.

4.20 We scale from S426_23 to the ^{66}Cu WITH S1 digrader first.

The factors are in page 30 up.

B fields:
0.85205
0.79644
0.63954
0.63895

4.35 Fil open.

For this settings the offset is

S2: -12 mm S4: +6 mm

We save this settings as S426_26

Now we scale to no S1 degrader.

TA-S1 $\frac{9.9498}{9.4498} = 1$

S1-S2 $\frac{9.4498}{8.9418} = 1.05681$

S2-S4: $\frac{7.8373}{7.2068} = 1.08749$

With this offset is

S2 = -13.55 mm S4 = -1.39 mm

5:08 ~~Scale~~ ~~TA-S2~~ ~~with~~ ~~13.0 mm~~ ~~Factor = 0.99825~~

We don't scale. The idea is to recalculate the target thickness.

We get 2565 mg/cm^2.

With this target thickness

BP_1 = 9.4332

BP_2 = 8.9244

BP_{S4} = 7.1848

We load S426_23 and scale from that

TA-S1 = $\frac{9.4332}{10.6586} = 0.88503$

S1-S2 = $\frac{8.9244}{10.6586} = 0.83729$

S2-S4 = $\frac{7.1848}{10.4871} = 0.68511$

The offset is

S2 = -6.6 S4 = 5.9

We scale +6mm. Factor =

S1-S2 = 0.99805 ~~The~~ S2 = -3mm

~~The~~ ~~results~~ ~~are~~ ~~now.~~ S4 = +20. mm

S1-S2 scale +3 mm

Factor = 0.99911 scale without ramping

S2-S4 scale -20. mm

Factor = 0.99684 ramping

We save settings as S426-26

Now we go for 69 Fe

BP_1 = 10.2595

BP_2 = 9.8092

BP_{S4} = 8.3213.

TA-S1 = $\frac{10.2595}{9.4332} = 1.08753$

S1-S2 = $\frac{9.8092}{8.9244} = 1.09914$

S2-S4 = $\frac{8.3213}{7.1848} = 1.15818$

5426_26

Seetram T0: 2.5g/cm² S1: 2g/cm² SC21: 3.1mm S2: 5g/cm²
Finger 1mm ^{66}Cu centered

25. Mar 2014
06:02:38.45

FS

A, ζ	MeV/u	B·ρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS

Experimentplatz	HFS
Experimentnummer	S430
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ●aktiv ○inaktiv	Acc	$Strom_{Ist}$	$Strom_{Soll}$	$Volt_{Ist}$	$Volt_{Soll}$	$B' \cdot l_{Ist}$	$B' \cdot l_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●○○○○○○○○○○○○○○○	S07	11.423	11.620	1.142	1.162	0.00523	0.00532	I->F	07FFFFFF	
GTE1QD11	●○○○○○○○○○○○○○○○	S07	51.690	51.656	1.880	1.878	-1.25495	-1.25504	I->F	07FFFFFF	
GTE1QD12	●○○○○○○○○○○○○○○○	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●○○○○○○○○○○○○○○○	S07	699.995	700.310	6.087	6.090	1.53248	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●○○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○●○○○○○○○○○○○○○○	S07	-2.933	-3.009	-0.293	-0.301	-0.00133	-0.00136	I->F	07FFFFFF	
GTS1QD11	○●○○○○○○○○○○○○○○	S07	162.447	162.515	5.415	5.417	6.26771	6.27171	I->F	07FFFFFF	
GTS1QD12	○●○○○○○○○○○○○○○○	S07	171.236	171.300	5.708	5.710	-6.60424	-6.60786	I->F	07FFFFFF	
GTS1MU2	○●○○○○○○○○○○○○○○	S07	319.338	319.341	5.806	5.806	1.53097	1.53122	I->F	07FFFFFF	
GTS2QT11	○●○○○○○○○○○○○○○○	S07	109.262	109.074	1.821	1.818	-2.13765	-2.13368	I->F	07FFFFFF	
GTS2QT12	○●○○○○○○○○○○○○○○	S07	260.256	260.120	4.338	4.335	6.07565	6.07143	I->F	07FFFFFF	
GTS2QT13	○●○○○○○○○○○○○○○○	S07	175.622	175.619	2.927	2.927	-3.43762	-3.43776	I->F	07FFFFFF	
GTS2KS1	●○○○○○○○○○○○○○○○	S07	2.018	2.033	0.237	0.239	0.25686	0.25877	I->F	07FFFFFF	
GTS3MU1	●○○○○○○○○○○○○○○○	S07	431.776	431.342	4.798	4.793	5.00946	4.93186	Hall	07FFFFFF	
GTS3MU1	●○○○○○○○○○○○○○○○	S07					4.93645		I>Bl	---"---	0.85045
GTS3MU1_0	●○○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●○○○○○○○○○○○○○○○	S07	14.361	14.347	1.690	1.688	1.82773	1.82599	I->F	07FFFFFF	
GTS3QD11	●○○○○○○○○○○○○○○○	S07	183.972	183.749	3.066	3.062	-3.60182	-3.59773	I->F	07FFFFFF	
GTS3QD12	●○○○○○○○○○○○○○○○	S07	115.561	115.548	1.926	1.926	2.26191	2.26144	I->F	07FFFFFF	
GTS3QD21	●○○○○○○○○○○○○○○○	S07	166.008	165.730	2.767	2.762	3.25108	3.24574	I->F	07FFFFFF	
GTS3KY1	●○○○○○○○○○○○○○○○	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●○○○○○○○○○○○○○○○	S07	187.652	187.563	3.128	3.126	-3.67586	-3.67440	I->F	07FFFFFF	
GTS3KS2	●○○○○○○○○○○○○○○○	S07	11.629	11.600	1.368	1.365	1.48008	1.47642	I->F	07FFFFFF	
GTS3MU2	●○○○○○○○○○○○○○○○	S07	409.033	407.236	4.545	4.525	-4.66879	-4.65262	Hall	07FFFFFF	
GTS3MU2	●○○○○○○○○○○○○○○○	S07					-4.67322		I>Bl	---"---	0.79264
GTS3KS3	●○○○○○○○○○○○○○○○	S07	0.384	0.365	0.045	0.043	0.04886	0.04650	I->F	07FFFFFF	
GTS3QT31	●○○○○○○○○○○○○○○○	S07	169.195	168.933	2.820	2.816	-3.32407	-3.31906	I->F	07FFFFFF	
GTS3QT32	●○○○○○○○○○○○○○○○	S07	271.719	271.657	4.529	4.528	6.35900	6.35658	I->F	07FFFFFF	
GTS3KY2	●○○○○○○○○○○○○○○○	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●○○○○○○○○○○○○○○○	S07	180.731	180.492	3.012	3.008	-3.55146	-3.54698	I->F	07FFFFFF	
GTS4QT11	●○○○○○○○○○○○○○○○	S07	145.335	145.164	2.422	2.419	-2.85441	-2.85099	I->F	07FFFFFF	
GTS4KY1	●○○○○○○○○○○○○○○○	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS4QT12	●○○○○○○○○○○○○○○○	S07	218.158	218.069	3.636	3.634	5.11094	5.10907	I->F	07FFFFFF	
GTS4QT13	●○○○○○○○○○○○○○○○	S07	134.587	134.460	2.243	2.241	-2.64763	-2.64501	I->F	07FFFFFF	
GTS4KS1	●○○○○○○○○○○○○○○○	S07	0.441	0.417	0.052	0.049	0.05613	0.05303	I->F	07FFFFFF	
GTS4MU1	●○○○○○○○○○○○○○○○	S07	328.309	328.320	3.648	3.648	-3.74311	-3.73640	Hall	07FFFFFF	
GTS4MU1	●○○○○○○○○○○○○○○○	S07					-3.73403		I>Bl	---"---	0.63544
GTS4KS2	●○○○○○○○○○○○○○○○	S07	8.999	9.008	1.059	1.060	1.14530	1.14643	I->F	07FFFFFF	
GTS4QD21	●○○○○○○○○○○○○○○○	S07	151.213	150.589	2.520	2.510	-2.97011	-2.95783	I->F	07FFFFFF	
GTS4KY2	●○○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●○○○○○○○○○○○○○○○	S07	133.488	133.007	2.225	2.217	2.62039	2.61077	I->F	07FFFFFF	
GTS4QD31	●○○○○○○○○○○○○○○○	S07	96.738	96.271	1.612	1.605	1.89633	1.88687	I->F	07FFFFFF	
GTS4QD32	●○○○○○○○○○○○○○○○	S07	144.566	144.129	2.409	2.402	-2.84725	-2.83860	I->F	07FFFFFF	
GTS4KS3	●○○○○○○○○○○○○○○○	S07	8.451	8.453	0.994	0.995	1.07564	1.07589	I->F	07FFFFFF	
GHFSMU1	●○○○○○○○○○○○○○○○	S07	327.320	327.046	3.637	3.634	3.73995	3.73640	Hall	07FFFFFF	
GHFSMU1	●○○○○○○○○○○○○○○○	S07					3.73952		I>Bl	---"---	0.63495
GHFSMU1_0	●○○○○○○○○○○○○○○○	S07	1.093		1.093		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●○○○○○○○○○○○○○○○	S07	0.078	0.031	0.009	0.004	0.00990	0.00400	I->F	07FFFFFF	
GHFSQT11	●○○○○○○○○○○○○○○○	S07	91.684	91.477	1.528	1.525	-1.80363	-1.79925	I->F	07FFFFFF	
GHFSQT12	●○○○○○○○○○○○○○○○	S07	189.007	188.804	3.150	3.147	4.42617	4.42186	I->F	07FFFFFF	
GHFSQT13	●○○○○○○○○○○○○○○○	S07	150.389	150.374	2.506	2.506	-2.95553	-2.95521	I->F	07FFFFFF	
GHFSKY1	●○○○○○○○○○○○○○○○	S07	-0.008	0.000	-0.004	0.000	0.00001	0.00000	I->F	07FFFFFF	

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We take S4 degrader out.

5426_27

Seetram Ta: 2.5g/cm² S1: 2g/cm² SC21: 3.1mm S2: 5g/cm²
Finger 1mm ^{69}Fe

25. Mar 2014
06:16:04.39

FS

A, ζ	MeV/u	B·ρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS

Experimentplatz	HFS
Experimentnummer	S430
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ●aktiv ○inaktiv	Acc	$Strom_{Ist}$	$Strom_{Soll}$	$Volt_{Ist}$	$Volt_{Soll}$	$B' \cdot l_{Ist}$	$B' \cdot l_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●○○○○○○○○○○○○○○○	S07	11.472	11.620	1.147	1.162	0.00525	0.00532	I->F	07FFFFFF	
GTE1QD11	●○○○○○○○○○○○○○○○	S07	51.690	51.656	1.880	1.878	-1.25495	-1.25504	I->F	07FFFFFF	
GTE1QD12	●○○○○○○○○○○○○○○○	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●○○○○○○○○○○○○○○○	S07	699.960	700.310	6.087	6.090	1.53241	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●○○○○○○○○○○○○○○○	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○●○○○○○○○○○○○○○○	S07	-2.933	-3.009	-0.293	-0.301	-0.00133	-0.00136	I->F	07FFFFFF	
GTS1QD11	○●○○○○○○○○○○○○○○	S07	162.447	162.515	5.415	5.417	6.26771	6.27171	I->F	07FFFFFF	
GTS1QD12	○●○○○○○○○○○○○○○○	S07	171.310	171.300	5.710	5.710	-6.60704	-6.60786	I->F	07FFFFFF	
GTS1MU2	○●○○○○○○○○○○○○○○	S07	319.288	319.341	5.805	5.806	1.53073	1.53122	I->F	07FFFFFF	
GTS2QT11	○●○○○○○○○○○○○○○○	S07	118.802	118.626	1.980	1.977	-2.32414	-2.32045	I->F	07FFFFFF	
GTS2QT12	○●○○○○○○○○○○○○○○	S07	283.053	282.918	4.718	4.715	6.60686	6.60287	I->F	07FFFFFF	
GTS2QT13	○●○○○○○○○○○○○○○○	S07	190.948	190.970	3.182	3.183	-3.73792	-3.73866	I->F	07FFFFFF	
GTS2KS1	●○○○○○○○○○○○○○○○	S07	2.195	2.211	0.258	0.260	0.27931	0.28142	I->F	07FFFFFF	
GTS3MU1	●○○○○○○○○○○○○○○○	S07	469.433	469.099	5.216	5.212	5.44877	5.36355	Hall	07FFFFFF	
GTS3MU1	●○○○○○○○○○○○○○○○	S07					5.36794		I>Bl	---"---	0.92515
GTS3MU1_0	●○○○○○○○○○○○○○○○	S07	0.005		0.005		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●○○○○○○○○○○○○○○○	S07	15.624	15.603	1.838	1.836	1.98852	1.98582	I->F	07FFFFFF	
GTS3QD11	●○○○○○○○○○○○○○○○	S07	200.031	199.808	3.334	3.330	-3.91663	-3.91264	I->F	07FFFFFF	
GTS3QD12	●○○○○○○○○○○○○○○○	S07	125.687	125.661	2.095	2.094	2.46000	2.45938	I->F	07FFFFFF	
GTS3QD21	●○○○○○○○○○○○○○○○	S07	182.415	182.132	3.040	3.036	3.57283	3.56752	I->F	07FFFFFF	
GTS3KY1	●○○○○○○○○○○○○○○○	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●○○○○○○○○○○○○○○○	S07	206.201	206.133	3.437	3.436	-4.03963	-4.03868	I->F	07FFFFFF	
GTS3KS2	●○○○○○○○○○○○○○○○	S07	12.776	12.751	1.503	1.500	1.62601	1.62279	I->F	07FFFFFF	
GTS3MU2	●○○○○○○○○○○○○○○○	S07	449.602	447.737	4.996	4.975	-5.13130	-5.11388	Hall	07FFFFFF	
GTS3MU2	●○○○○○○○○○○○○○○○	S07					-5.13541		I>Bl	---"---	0.87114
GTS3KS3	●○○○○○○○○○○○○○○○	S07	0.420	0.402	0.049	0.047	0.05348	0.05111	I->F	07FFFFFF	
GTS3QT31	●○○○○○○○○○○○○○○○	S07	185.913	185.682	3.099	3.095	-3.65242	-3.64811	I->F	07FFFFFF	
GTS3QT32	●○○○○○○○○○○○○○○○	S07	298.709	298.632	4.978	4.977	6.98876	6.98677	I->F	07FFFFFF	
GTS3KY2	●○○○○○○○○○○○○○○○	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●○○○○○○○○○○○○○○○	S07	198.639	198.392	3.311	3.307	-3.90317	-3.89863	I->F	07FFFFFF	
GTS4QT11	●○○○○○○○○○○○○○○○	S07	168.297	168.127	2.805	2.802	-3.30517	-3.30196	I->F	07FFFFFF	
GTS4KY1	●○○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QT12	●○○○○○○○○○○○○○○○	S07	252.821	252.725	4.214	4.212	5.92021	5.91722	I->F	07FFFFFF	
GTS4QT13	●○○○○○○○○○○○○○○○	S07	155.864	155.745	2.598	2.596	-3.06571	-3.06340	I->F	07FFFFFF	
GTS4KS1	●○○○○○○○○○○○○○○○	S07	0.508	0.483	0.060	0.057	0.06471	0.06142	I->F	07FFFFFF	
GTS4MU1	●○○○○○○○○○○○○○○○	S07	380.111	380.107	4.223	4.223	-4.33399	-4.32742	Hall	07FFFFFF	
GTS4MU1	●○○○○○○○○○○○○○○○	S07					-4.32747		I>Bl	---"---	0.73584
GTS4KS2	●○○○○○○○○○○○○○○○	S07	10.428	10.433	1.227	1.227	1.32722	1.32778	I->F	07FFFFFF	
GTS4QD21	●○○○○○○○○○○○○○○○	S07	175.018	174.408	2.917	2.907	-3.43738	-3.42570	I->F	07FFFFFF	
GTS4KY2	●○○○○○○○○○○○○○○○	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●○○○○○○○○○○○○○○○	S07	154.491	154.057	2.575	2.568	3.03225	3.02375	I->F	07FFFFFF	
GTS4QD31	●○○○○○○○○○○○○○○○	S07	111.972	111.520	1.866	1.859	2.19451	2.18533	I->F	07FFFFFF	
GTS4QD32	●○○○○○○○○○○○○○○○	S07	167.382	166.965	2.790	2.783	-3.29567	-3.28761	I->F	07FFFFFF	
GTS4KS3	●○○○○○○○○○○○○○○○	S07	9.790	9.791	1.152	1.152	1.24600	1.24608	I->F	07FFFFFF	
GHFSMU1	●○○○○○○○○○○○○○○○	S07	379.040	378.724	4.212	4.208	4.33039	4.32742	Hall	07FFFFFF	
GHFSMU1	●○○○○○○○○○○○○○○○	S07					4.33200		I>Bl	---"---	0.73515
GHFSMU1_0	●○○○○○○○○○○○○○○○	S07	1.098		1.098		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●○○○○○○○○○○○○○○○	S07	0.078	0.036	0.009	0.004	0.00990	0.00463	I->F	07FFFFFF	
GHFSQT11	●○○○○○○○○○○○○○○○	S07	106.186	105.987	1.770	1.766	-2.08810	-2.08385	I->F	07FFFFFF	
GHFSQT12	●○○○○○○○○○○○○○○○	S07	218.891	218.715	3.648	3.645	5.12519	5.12131	I->F	07FFFFFF	
GHFSQT13	●○○○○○○○○○○○○○○○	S07	174.139	174.164	2.902	2.903	-3.42201	-3.42267	I->F	07FFFFFF	
GHFSKY1	●○○○○○○○○○○○○○○○	S07	-0.007	0.000	-0.003	0.000	0.00001	0.00000	I->F	07FFFFFF	

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^{69}Fe Z = 26
A/Q = 2.4615

5426_28

seetiam, t_A: 2.5 g/cm², s1: 2 g/cm², sc21 = 3.1 mm, s2: 5 g/cm²

Finger 1mm ^{64}Fe centered s2, s4

25. Mar 2014
06:45:21.78

FS

A, ζ	MeV/u	B·ρ [Tm]	bis
$^{86}Kr^{33+}$	11.200	1.2581	GS08BE2F
$^{86}Kr^{33+}$	700.000	11.6315	GTS1ET5
$^{86}Kr^{33+}$	700.000	11.6315	GTS3ED7L
$^{86}Kr^{33+}$	700.000	11.6315	Ende

Magnetwerte/-status für Konsole FS

Experimentplatz	HFS
Experimentnummer	S430
Beschleuniger	S07
Task	FSMS
Version	FSMS

Name	AccStatus: ● aktiv ○ inaktiv	Acc	Strom$_{Ist}$	Strom$_{Soll}$	Volt$_{Ist}$	Volt$_{Soll}$	B′ · l$_{Ist}$	B′ · l$_{Soll}$	Mode	Status	Fehler (Bit 0..15)
GTE1KY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	11.472	11.620	1.147	1.162	0.00525	0.00532	I->F	07FFFFFF	
GTE1QD11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	51.690	51.656	1.880	1.878	-1.25495	-1.25504	I->F	07FFFFFF	
GTE1QD12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.126	0.494	0.005	0.018	0.01104	0.01977	I->F	07FFFFFF	
GTS1MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	699.890	700.310	6.086	6.090	1.53226	1.53325	I->F	07FFFFFF	
GTS1MU1_0	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.002		0.002		0.00000		Dmy	FFFFFF86	Regler abgeglichen
GTS1KY1	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-2.933	-3.009	-0.293	-0.301	-0.00133	-0.00136	I->F	07FFFFFF	
GTS1QD11	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	162.520	162.515	5.417	5.417	6.27051	6.27171	I->F	07FFFFFF	
GTS1QD12	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	171.236	171.300	5.708	5.710	-6.60424	-6.60786	I->F	07FFFFFF	
GTS1MU2	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	319.271	319.341	5.805	5.806	1.53065	1.53122	I->F	07FFFFFF	
GTS2QT11	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	118.784	118.626	1.980	1.977	-2.32378	-2.32045	I->F	07FFFFFF	
GTS2QT12	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	283.053	282.918	4.718	4.715	6.60686	6.60287	I->F	07FFFFFF	
GTS2QT13	○①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	190.948	190.970	3.182	3.183	-3.73792	-3.73866	I->F	07FFFFFF	
GTS2KS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	2.195	2.211	0.258	0.260	0.27931	0.28142	I->F	07FFFFFF	
GTS3MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	469.378	469.099	5.215	5.212	5.44846	5.36355	Hall	07FFFFFF	0.92525
GTS3MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					5.36731		I>Bl	---"---	
GTS3MU1_0	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.002		0.002		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GTS3KS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	15.619	15.603	1.838	1.836	1.98786	1.98582	I->F	07FFFFFF	
GTS3QD11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	200.031	199.808	3.334	3.330	-3.91663	-3.91264	I->F	07FFFFFF	
GTS3QD12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	125.687	125.661	2.095	2.094	2.46000	2.45938	I->F	07FFFFFF	
GTS3QD21	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	182.415	182.132	3.040	3.036	3.57283	3.56752	I->F	07FFFFFF	
GTS3KY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.020	0.000	0.009	0.000	0.00002	0.00000	I->F	07FFFFFF	
GTS3QD22	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	206.220	206.133	3.437	3.436	-4.03999	-4.03868	I->F	07FFFFFF	
GTS3KS2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	12.778	12.751	1.503	1.500	1.62634	1.62279	I->F	07FFFFFF	
GTS3MU2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	449.684	447.737	4.996	4.975	-5.13130	-5.11388	Hall	07FFFFFF	
GTS3MU2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					-5.13572		I>Bl	---"---	0.87114
GTS3KS3	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.420	0.402	0.049	0.047	0.05348	0.05111	I->F	07FFFFFF	
GTS3QT31	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	185.913	185.682	3.099	3.095	-3.65242	-3.64811	I->F	07FFFFFF	
GTS3QT32	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	298.691	298.632	4.978	4.977	6.98833	6.98677	I->F	07FFFFFF	
GTS3KY2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-0.011	0.000	-0.005	0.000	-0.00001	0.00000	I->F	07FFFFFF	
GTS3QT33	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	198.676	198.392	3.311	3.307	-3.90389	-3.89863	I->F	07FFFFFF	
GTS4QT11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	168.480	168.313	2.808	2.805	-3.30877	-3.30561	I->F	07FFFFFF	
GTS4KY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.010	0.000	0.005	0.000	0.00001	0.00000	I->F	07FFFFFF	
GTS4QT12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	253.133	253.006	4.219	4.217	5.92747	5.92376	I->F	07FFFFFF	
GTS4QT13	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	156.029	155.917	2.600	2.599	-3.06895	-3.06679	I->F	07FFFFFF	
GTS4KS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.506	0.483	0.060	0.057	0.06438	0.06149	I->F	07FFFFFF	
GTS4MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	380.523	380.526	4.228	4.228	-4.33874	-4.33220	Hall	07FFFFFF	
GTS4MU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					-4.33249		I>Bl	---"---	0.73664
GTS4KS2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	10.439	10.444	1.228	1.229	1.32854	1.32924	I->F	07FFFFFF	
GTS4QD21	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	175.201	174.601	2.920	2.910	-3.44098	-3.42949	I->F	07FFFFFF	
GTS4KY2	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-0.001	0.000	0.000	0.000	0.00000	0.00000	I->F	07FFFFFF	
GTS4QD22	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	154.692	154.227	2.578	2.570	3.03620	3.02709	I->F	07FFFFFF	
GTS4QD31	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	112.082	111.643	1.868	1.861	2.19666	2.18774	I->F	07FFFFFF	
GTS4QD32	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	167.565	167.150	2.793	2.786	-3.29927	-3.29124	I->F	07FFFFFF	
GTS4KS3	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	9.803	9.801	1.153	1.153	1.24765	1.24746	I->F	07FFFFFF	
GHFSMU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	379.479	379.142	4.216	4.213	4.33549	4.33220	Hall	07FFFFFF	
GHFSMU1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07					4.33765		I>Bl	---"---	0.73605
GHFSMU1_0	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	1.089		1.089		0.00000		Dmy	FFFFFFFF	Regler abgeglichen
GHFSKS1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	0.114	0.036	0.013	0.004	0.01453	0.00464	I->F	07FFFFFF	
GHFSQT11	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	106.314	106.104	1.772	1.768	-2.09061	-2.08615	I->F	07FFFFFF	
GHFSQT12	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	219.147	218.957	3.652	3.649	5.13119	5.12697	I->F	07FFFFFF	
GHFSQT13	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	174.358	174.357	2.906	2.906	-3.42633	-3.42645	I->F	07FFFFFF	
GHFSKY1	●①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮	S07	-0.008	0.000	-0.004	0.000	0.00001	0.00000	I->F	07FFFFFF	

SIS_TS_HFS

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$Bf_1 = 10.2759$

$Bf_2 = 9.8263$

$Bf_{1d} = 8.3373$