

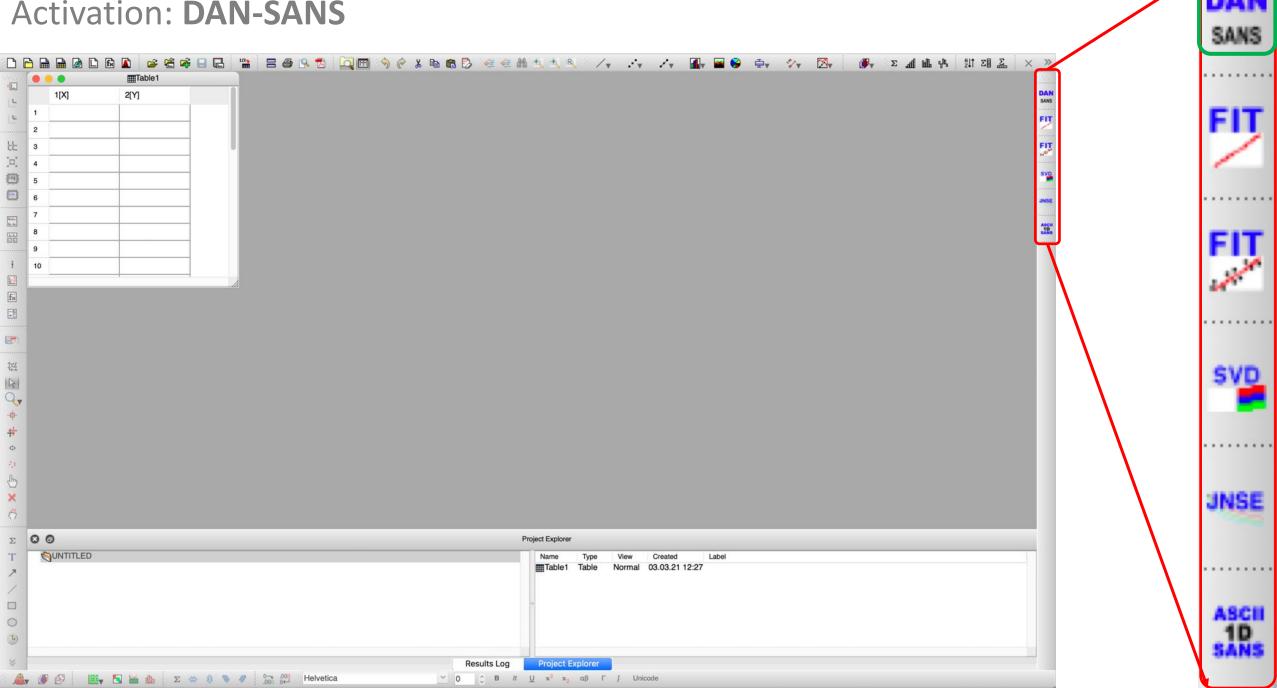
QtiSAS | DAN-SANS | Screenshots 2021-03-24 V. Pipich and M.-S. Appavou

DAN-SANS. Data Reduction. Example.

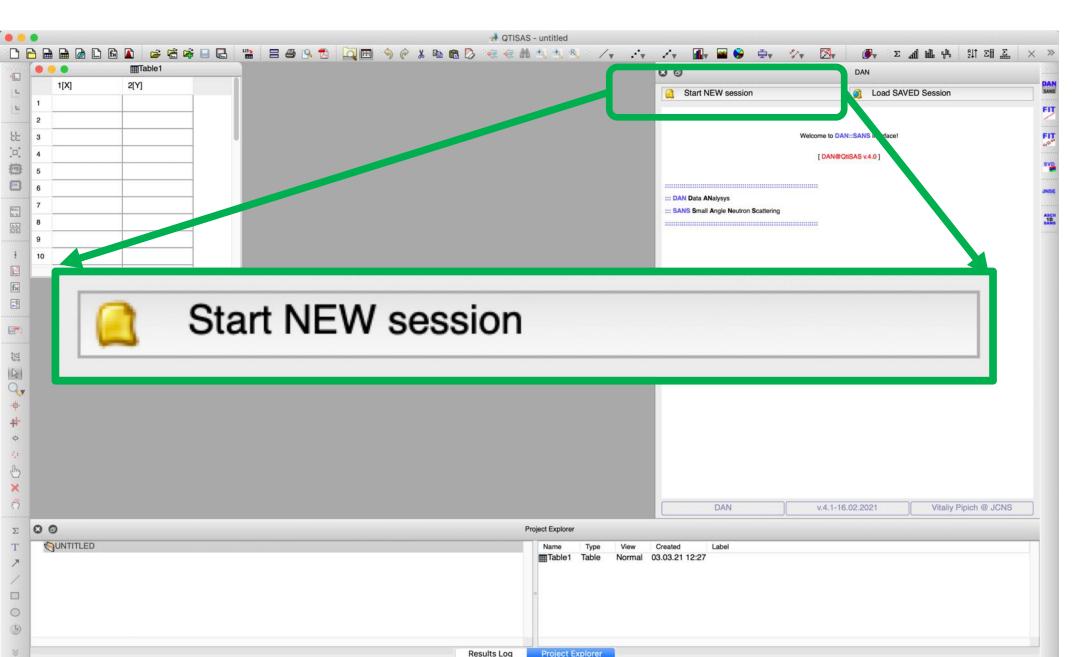
Instrument: Date of the Experiment: QtiSAS Version: DAN-SANS "Instrument": KWS-1 March.2020 >01.03.2021 KWS1-2020

STEP 0: Preparations

Activation: **DAN-SANS**



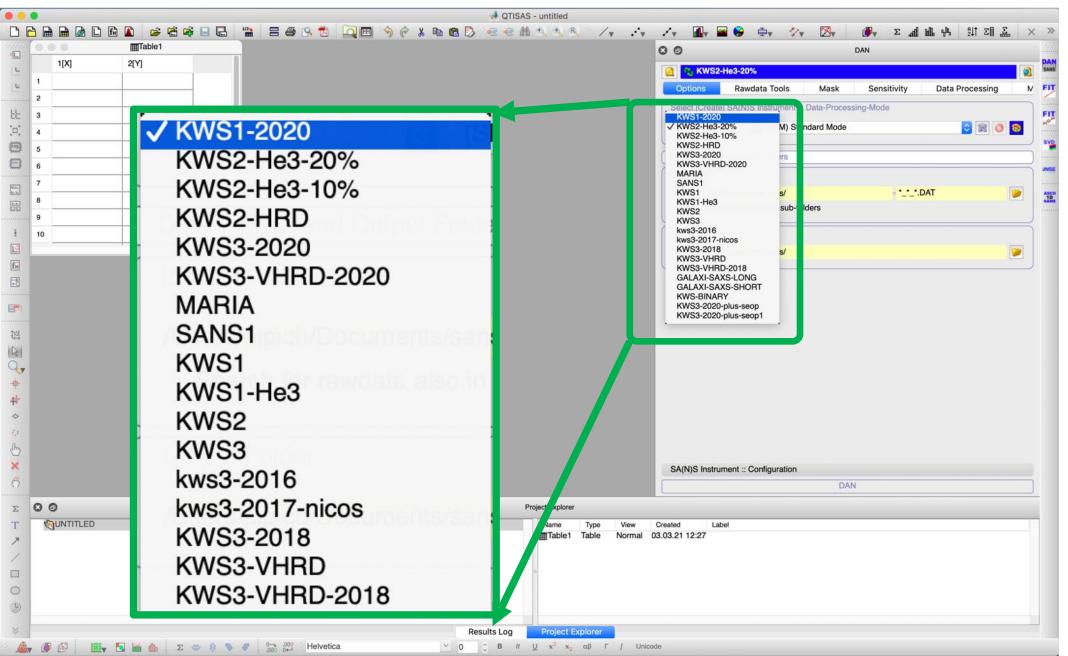
Starting of "New Session"



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STEP 1: Instrument Selection

Select Data-Reduction-Instrument: KWS1-2020



Selected: KWS1-2020

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Instrument related parameters are "hidden" in "SA(N)S Instrument :: configuration" tab (not explained in this file)

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STEP 2: Raw-Data Path Selection

Select Path (Folder) where your data is located

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Experiment "logbook" generation: "Header(s) - to – Info-Table" interface

STEP 3 (optional): Data-Information-Table Generation

More tools below (not explained in this file)

info-extractor	\$	<u>ର</u>
Sample		+ 🛾 Ad

Header(s) - to – Info Extractor Step-by-step adding of parameters to your "logbook"

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Image(s) - to - Info Matrix Step-by-step adding of Raw-matrixes to single matrix

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Fast Info Extractor Every raw-file could be investigated Here in details

3.1 Go to Rawdata Tools tab

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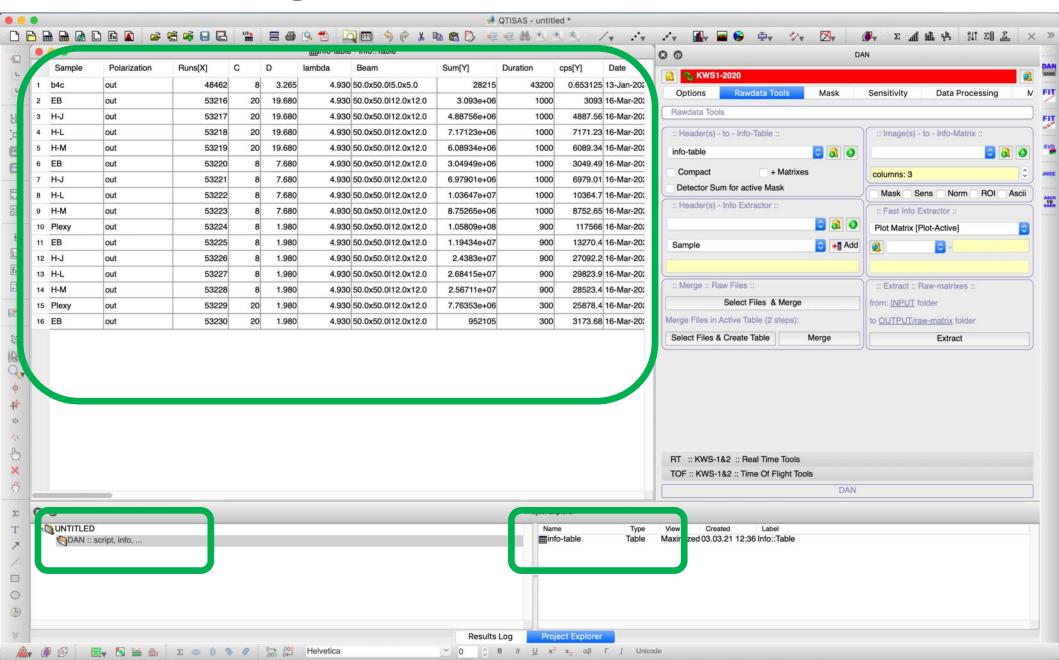
3.2 Push 🧿 Button and enter Table Name

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3.3 Select Data to get Information

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3.4 "info-table" is generated



STEP 4 (optional): Data "Understanding"

Samples

•									minfo-table - In	nfo::Table			
	Sample	Polarization	Runs[X]	С	D	lambda	Beam	Sum[Y]	Duration	cps[Y]	Date	Time	F
1	b4c	out	48462	8	3.265	4.930	50.0x50.0l5.0x5.0	28215	43200	0.653125	13-Jan-2020	19:18:02.00	
2	EB	out	53216	20	19.680	4.930	50.0x50.0l12.0x12.0	3.093e+06	1000	3093	16-Mar-2020	17:00:32.00	
3	H-J	out	53217	20	19.680	4.930	50.0x50.0l12.0x12.0	4.987566+06	1000	4887.56	16-Mar-2020	17:17:27.00	
4	H-L	out	53218	20	19.680	4.930	50.0x50.0l12.0x12.0	7.171236+00	000	7171.23	16-Mar-2020	17:34:17.00	
5	H-M	out	53219	20	19.680	4.930	50.0x50.0l12.0x12.0	6.08934e+06	⁻ 000	6089.34	16-Mar-2020	17:51:07.00	
6	EB	out	53220	8	7.680	4.930	50.0x50.0l12.0x12.0	3.04949e+06	1000	3049.49	16-Mar-2020	18:22:04.00	
7	H-J	out	53221	8	7.680	4.930	50.0x50.0l12.0x12.0	6.97901e+06	000	6979.01	16-Mar-2020	18:38:59.00	
8	H-L	out	53222	8	7.680	4.930	50.0x50.0l12.0x12.0	1.036476+0.		10364.7	16-Mar-2020	18:55:49.00	
9	H-M	out	53223	8	7.680	4.930	50.0x50.0l12.0x12.0	8.75265e+06	⁻ 000	8752.65	16-Mar-2020	19:12:39.00	
10	Plexy	out	53224	8	1.980	4.930	50.0x50.0l12.0x12.0	1.05809e+08	900	117566	16-Mar-2020	19:38:28.00	
11	EB	out	53225	8	1.980	4.930	50.0x50.0l12.0x12.0	1.19434e+07	900	13270.4	16-Mar-2020	19:53:41.00	
12	H-J	out	53226	8	1.980	4.930	50.0x50.0l12.0x12.0	2.4383e+07	900	27092.2	16-Mar-2020	20:08:56.00	
13	H-L	out	53227	8	1.980	4.930	50.0x50.0l12.0x12.0	2.68415e 07	5CZ 900	29823.9	16-Mar-2020	20:24:06.00	
14	H-M	out	53228	8	1.980	4.930	50.0x50.0l12.0x12.0	2.56711e+07	900	28523.4	16-Mar-2020	20:39:17.00	
15	Plexy	out	53229	20	1.980	4.930	50.0x50.0l12.0x12.0	7.76353e+06	300	25878.4	16-Mar-2020	20:54:46.00	
16	EB	out	53230	20	1.980	4.930	50.0x50.0l12.0x12.0	952105	300	3173.68	16-Mar-2020	20:59:59.00	

3 samples: H-J, H-L, H-M;

3 configurations: C20D20, C8D8, C8C2 (WaveLength 4.93A, s.aperture 12x12mm², c.aperture 50x50mm²)

"Dark Current"

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	Sample	Polarization	Runs[X]	С	D	lambda	Beam	Sum[Y]	Duration	cps[Y]	Date	Time	F
1	b4c	out	48462	8	3.265	4.930	50.0x50.0l5.0x5.0	Current	B4C^{4:} 200	0.653125	13-Jan-2020	19:18:02.00	
2	ED	out	55210	20	19.000	4.900	50.0250.0112.0212.0	3.093e+00	000	3093	16-Mar-2020	17:00:32.00	
3	H-J	out	53217	20	19.680	4.930	50.0x50.0l12.0x12.0	4.88756e+06	1000	4887.56	6 16-Mar-2020	17:17:27.00	
4	H-L	out	53218	20	19.680	4.930	50.0x50.0l12.0x12.0	7.17123e+06	1000	7171.23	16-Mar-2020	17:34:17.00	
5	H-M	out	53219	20	19.680	4.930	50.0x50.0l12.0x12.0	6.08934e+06	1000	6089.34	16-Mar-2020	17:51:07.00	
6	EB	out	53220	8	7.680	4.930	50.0x50.0l12.0x12.0	3.04949e+06	1000	3049.49	16-Mar-2020	18:22:04.00	
7	H-J	out	53221	8	7.680	4.930	50.0x50.0l12.0x12.0	6.97901e+06	1000	6979.01	16-Mar-2020	18:38:59.00	
8	H-L	out	53222	8	7.680	4.930	50.0x50.0l12.0x12.0	1.03647e+07	1000	10364.7	16-Mar-2020	18:55:49.00	
9	H-M	out	53223	8	7.680	4.930	50.0x50.0l12.0x12.0	8.75265e+06	1000	8752.65	i 16-Mar-2020	19:12:39.00	
10	Plexy	out	53224	8	1.980	4.930	50.0x50.0l12.0x12.0	1.05809e+08	900	117566	6 16-Mar-2020	19:38:28.00	
11	EB	out	53225	8	1.980	4.930	50.0x50.0l12.0x12.0	1.19434e+07	900	13270.4	16-Mar-2020	19:53:41.00	
12	H-J	out	53226	8	1.980	4.930	50.0x50.0l12.0x12.0	2.4383e+07	900	27092.2	2 16-Mar-2020	20:08:56.00	
13	H-L	out	53227	8	1.980	4.930	50.0x50.0l12.0x12.0	2.68415e+07	900	29823.9	16-Mar-2020	20:24:06.00	
14	H-M	out	53228	8	1.980	4.930	50.0x50.0l12.0x12.0	2.56711e+07	900	28523.4	16-Mar-2020	20:39:17.00	
15	Plexy	out	53229	20	1.980	4.930	50.0x50.0l12.0x12.0	7.76353e+06	300	25878.4	16-Mar-2020	20:54:46.00	
16	EB	out	53230	20	1.980	4.930	50.0x50.0l12.0x12.0	952105	300	3173.68	16-Mar-2020	20:59:59.00	
16	EB	out	53230	20	1.980	4.930	50.0x50.0l12.0x12.0	952105	300	3173.68	16-Mar-2020	20:59:5	59.00

Detector Dark Current : #48462 (blocked beam with B4C;

Ask local contact to provide this file (single file will be used in all configurations)

Empty Beam/Cell

•									minfo-table - Ir	nfo::Table			
	Sample	Polarization	Runs[X]	С	D	lambda	Beam	Sum[Y]	Duration	cps[Y]	Date	Time	F
1	b4c	out	48462	Q	3 265	4 930	50 0250 015 025 0	28215	43200	0.653125	13-Jan-2020	19:18:02.00	
2	EB	out	53216	20	19.680	4.930	50.0x50.0l12.0x12.0	EB9362	0D20 000	3093	16-Mar-2020	17:00:32.00	Γ
0	H J	out	50217	20	10.000	1.000	50.0x50.0l12.0x12.0	1.007500+00	.000	4887.56	16-Mar-2020	17:17:27.00	
4	H-L	out	53218	20	19.680	4.930	50.0x50.0l12.0x12.0	7.17123e+06	1000	7171.23	16-Mar-2020	17:34:17.00	\Box
5	H M	oui	50213	20	19.000	4.900	50.0x50.0112.0x12.0	0.000040+00	1000	6089.34	16-Mar-2020	17:51:07.00	Γ
6	EB	out	53220	8	7.680	4.930	50.0x50.0l12.0x12.0	3.049 9 06	C8D8 000	3049.49	16-Mar-2020	18:22:04.00	\Box
7	п-ј	out	53221	0	7.000	4.930	50.0X50.0112.0X12.0	0.979010+00	000	6979.01	16-Mar-2020	18:38:59.00	
8	H-L	out	53222	8	7.680	4.930	50.0x50.0l12.0x12.0	1.03647e+07	1000	10364.7	16-Mar-2020	18:55:49.00	Γ
9	н-м	out	53223	8	7.680	4.930	50.0x50.0l12.0x12.0	8.75265e+06	1000	8752.65	16-Mar-2020	19:12:39.00	
10	Plexv	out	53224	8	1.980	4.930	50.0x50.0l12.0x12.0	1.05809e+08	900	117566	16-Mar-2020	19:38:28.00	\Box
11	EB	out	53225	8	1.980	4.930	50.0x50.0l12.0x12.0	1.194.4 07	C8D2 900	13270.4	16-Mar-2020	19:53:41.00	\Box
12	H- 1	out	53226	ß	1 980	1 930	50 0x50 012 0x12 0	2 /3830+07	900	27092.2	16-Mar-2020	20:08:56.00	\Box
13	H-L	out	53227	8	1.980	4.930	50.0x50.0l12.0x12.0	2.68415e+07	900	29823.9	16-Mar-2020	20:24:06.00	Γ
14	H-M	out	53228	8	1.980	4.930	50.0x50.0l12.0x12.0	2.56711e+07	900	28523.4	16-Mar-2020	20:39:17.00	Γ
15	Plexy	out	53229	20	1.980	4.930	50.0x50.0l12.0x12.0	7.76353e+06	300	25878.4	16-Mar-2020	20:54:46.00	\Box
16	EB	out	53230	20	1.980	4.930	50.0x50.0l12.0x12.0	952105	300	3173.68	16-Mar-2020	20:59:59.00	
											h	ala.	-

EC (Empty cell/beam) to subtract from sample's runs

								minfo-table - I	IU. Iable		
ample	Polarization	Runs[X]	C	Р	lambda	Beam	Sum[V]	Duration	cps[Y]	Date	Time F
; (out	48462	8		ark Cum	ento. 620. D20), C8D8;5	C8D24: 200	0.653125	13-Jan-2020	19:18:02.00
	out	50210	20	10.000	4.000	50.0x50.0112.0x12.0	0.0000+00	000	3093	16-Mar-2020	17:00:32.00
J	out	53217	20	19.680	4.930	50.0x50.0l12.0x12.0	4.88756e+06	1000	4887.56	16-Mar-2020	17:17:27.00
- 0	out	53218	20	19.680	4.930	50.0x50.0l12.0x12.0	7.17123e+06	1000	7171.23	16-Mar-2020	17:34:17.00
V V	out	53219	20	19.680	4.930	50.0x50.0l12.0x12.0	6.08934e+06	1000	6089.34	16-Mar-2020	17:51:07.00
(out	53220	8	7.680	4.930	50.0x50.0l12.0x12.0	3.04949e+06	1000	3049.49	16-Mar-2020	18:22:04.00
J	out	53221	8	7.680	4.930	50.0x50.0l12.0x12.0	6.97901e+06	1000	6979.01	16-Mar-2020	18:38:59.00
	out	53222	8	7.680	4.930	50.0x50.0l12.0x12.0	1.03647e+07	1000	10364.7	16-Mar-2020	18:55:49.00
vî (out	55225	0	7.000			0.752050+00	000	8752.65	16-Mar-2020	19:12:39.00
exy o	out	53224	8	1.980	4.930	A. Gx50. PILOXY D	B1.05809e+08	C8D8 900	117566	16-Mar-2020	19:38:28.00
	out	53225	8	1.980	4.930	50.0x50.0l12.0x12.0	1.19434e+07	C8D2 900	13270.4	16-Mar-2020	19:53:41.00
;	out	50220	Û	1.900	4.900	50.0x50.0112.0x12.0	2.40000+07	900	27092.2	16-Mar-2020	20:08:56.00
- 0	out	53227	8	1.980	4.930	50.0x50.0l12.0x12.0	2.68415e+07	900	29823.9	16-Mar-2020	20:24:06.00
И	out	53228	8	1.980	4.930	50.0x50.0l12.0x12.0	2.56711e+07	900	28523.4	16-Mar-2020	20:39:17.00
xy	out	53229	20	1.980	4.930	500050.01100x13.Q	EB76353	DD20 300	25878.4	16-Mar-2020	20:54:46.00
	out	53230	20	1.980	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		952105	300	3173.68	16-Mar-2020	20:59:59.00
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Absolute Calibration Runs:

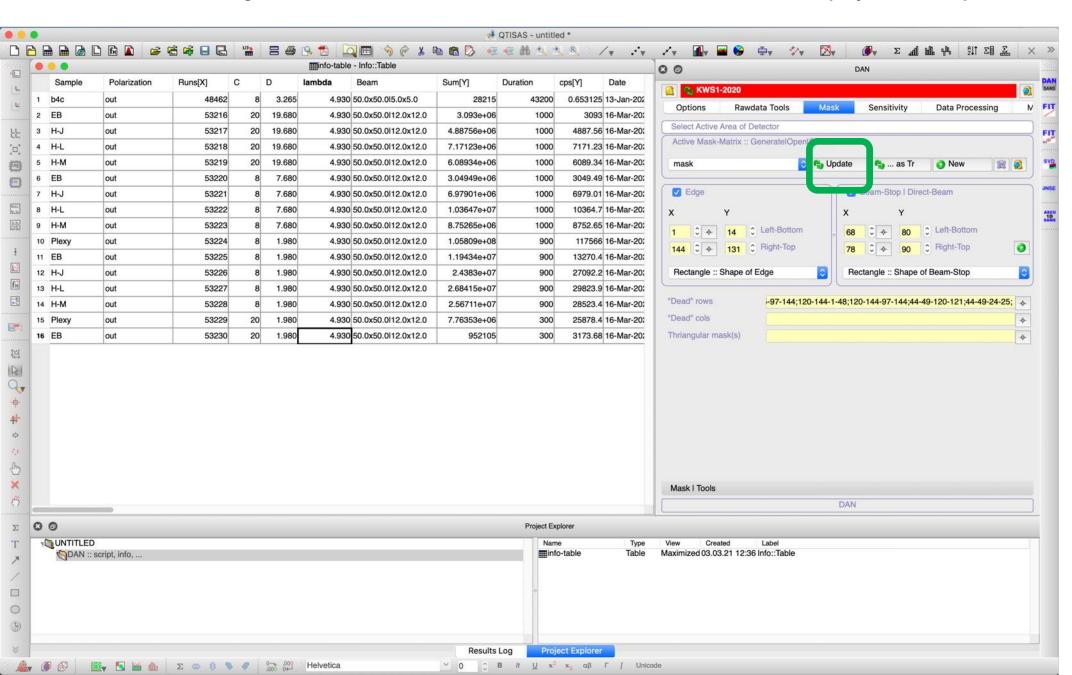
- Plexy ("flat scattering sample", like Plexiglas or H2O)
- EB ("Empty Beam")
- B4C ("Dark Current")

STEP 5: Standard Detector "Mask" Creation

Go to MASK tab

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	Sample	Polarization	Runs[X]	С	D	lambda Beam	Sum[Y]	Duration	cps[Y]	Date	🔁 🔩 KWS1-2020					DA
100	1 b4c	out	48462	8	3.265	4.930 50.0x50.0l5.0x5.0	28215	43200	0.653125	13-Jan-202		Mark	Sensitivity	Data Dasassina	Lange of the second	FIT
100	2 EB	out	53216	20	19.680	4.930 50.0x50.0l12.0x12.0	3.093e+06	1000	3093	16-Mar-20:		Mask	Sensitivity	Data Processing	N	2
5	3 H-J	out	53217	20	19.680	4.930 50.0x50.0l12.0x12.0	4.88756e+06	1000	4887.56	6 16-Mar-20;	Rawdata Tools					FI
)	4 H-L	out	53218	20	19.680	4.930 50.0x50.0l12.0x12.0	7.17123e+06	1000	7171.23	16-Mar-20:	:: Header(s) - to - Info-Table ::		:: Image(s) -	to - Info-Matrix ::		8.935×
1	5 H-M	out	53219	20	19.680	4.930 50.0x50.0l12.0x12.0	6.08934e+06	1000	6089.34	16-Mar-20:	info-table	0 🔝 🖸			30	sv
•	6 EB	out	53220	8	7.680	4.930 50.0x50.0l12.0x12.0	3.04949e+06	1000	3049.49	16-Mar-20;	Compact + Matrix	es	anhumana 0			3115
	7 H-J	out	53221	8	7.680	4.930 50.0x50.0l12.0x12.0	6.97901e+06	1000	6979.01	16-Mar-20;	Detector Sum for active Mask		columns: 3			
100	B H-L	out	53222	8	7.680	4.930 50.0x50.0l12.0x12.0	1.03647e+07	1000	10364.7	16-Mar-20:	:: Header(s) - Info Extractor ::		Mask S	ens Norm ROI	Ascii	1
	9 H-M	out	53223	8		4.930 50.0x50.0l12.0x12.0		1.000.0000	11.51.09/5.00.005	16-Mar-20:			:: Fast Info i	Extractor ::		
	10 Plexy	out	53224	8		4.930 50.0x50.0l12.0x12.0				16-Mar-20;		3 3 0	Plot Matrix [Plot-Active]	0	
- 1	11 EB	out	53225	8		4.930 50.0x50.0l12.0x12.0	1.19434e+07	900	13270.4	16-Mar-20;	Sample	ᅌ + 🖬 Add	2	0		
	12 H-J	out	53226	8	1.980	4.930 50.0x50.0l12.0x12.0	2.4383e+07	900	27092.2	16-Mar-20;	1					
n -	13 H-L	out	53227	8		4.930 50.0x50.0l12.0x12.0				16-Mar-20;	:: Merge :: Raw Files ::			-	\equiv	
	14 H-M	out	53228	8	1.980	4.930 50.0x50.0l12.0x12.0	2.56711e+07	900	28523.4	16-Mar-20:				Raw-matrixes ::		
19.	15 Plexy	out	53229	20	1.980	4.930 50.0x50.0l12.0x12.0	7.76353e+06	300	25878.4	16-Mar-20:	Select Files & Merge		from: INPUT f			
	16 EB	out	53230	20	1.980	4.930 50.0x50.0l12.0x12.0	952105	300	3173.68	16-Mar-20:	Merge Files in Active Table (2 steps):		to OUTPUT/ra	<u>aw-matrix</u> folder		
											RT :: KWS-1&2 :: Real Time Tools TOF :: KWS-1&2 :: Time Of Flight To	ols				
² γ	-											DAN				
	3 0							Project Ex	cplorer							
		ED :: script, info,						Nar ∰in	ne fo-table	Type Table	View Created Label Maximized 03.03.21 12:36 Info::Table					
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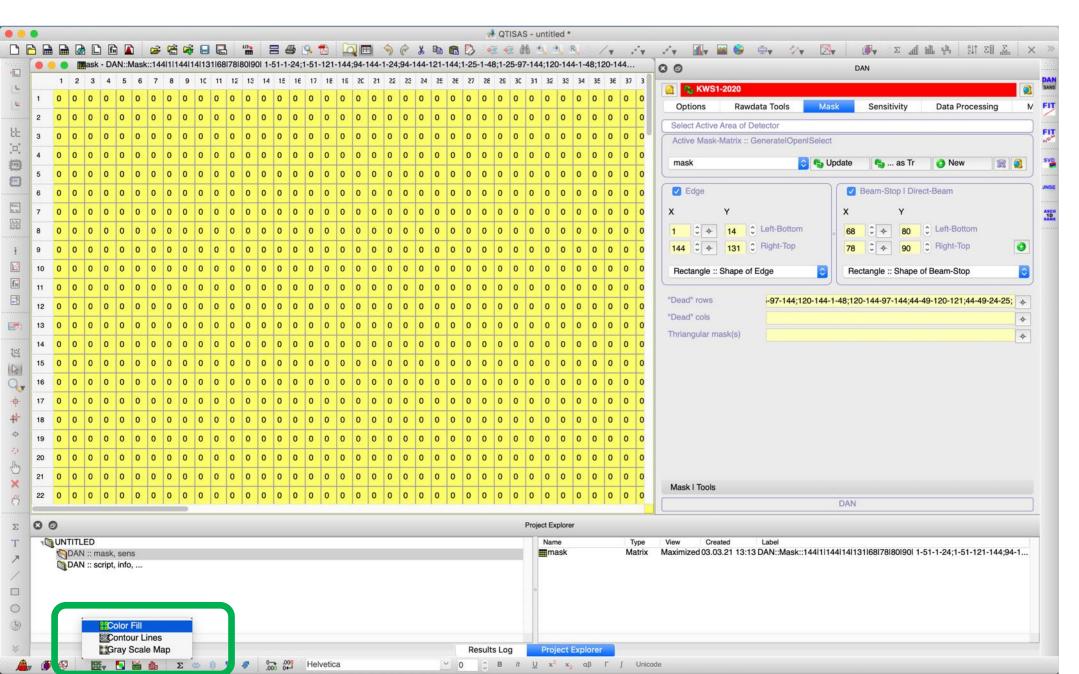
Push button "Update": matrix "mask" will be created (updated)



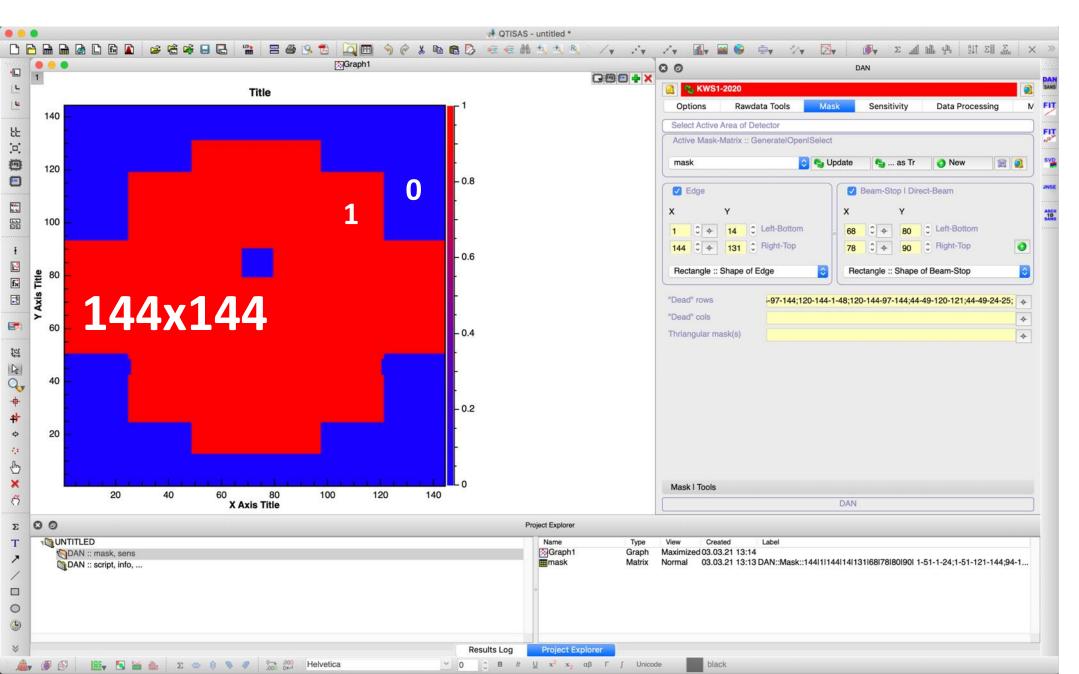
"mask" matrix is created in "DAN:: mask, sens" folder

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5 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	
6 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	Seam-Stop I Direct-Beam
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8 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	1 0 + 14 0 Left-Bottom 68 0 + 80 0 Left-Bottom
i 9 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	144 C + 131 C Right-Top 78 C + 90 C Right-Top
10 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	Rectangle :: Shape of Edge
[C ^{*]}	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	
12 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	"Dead" rows -97-144;120-144-1-48;120-144-97-144;44-49-120-121;44-49-24-25;
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20 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	
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8 22 0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	Mask I Tools DAN
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Plotting Example: "Color Fill"



Plotting Example: "Color Fill"

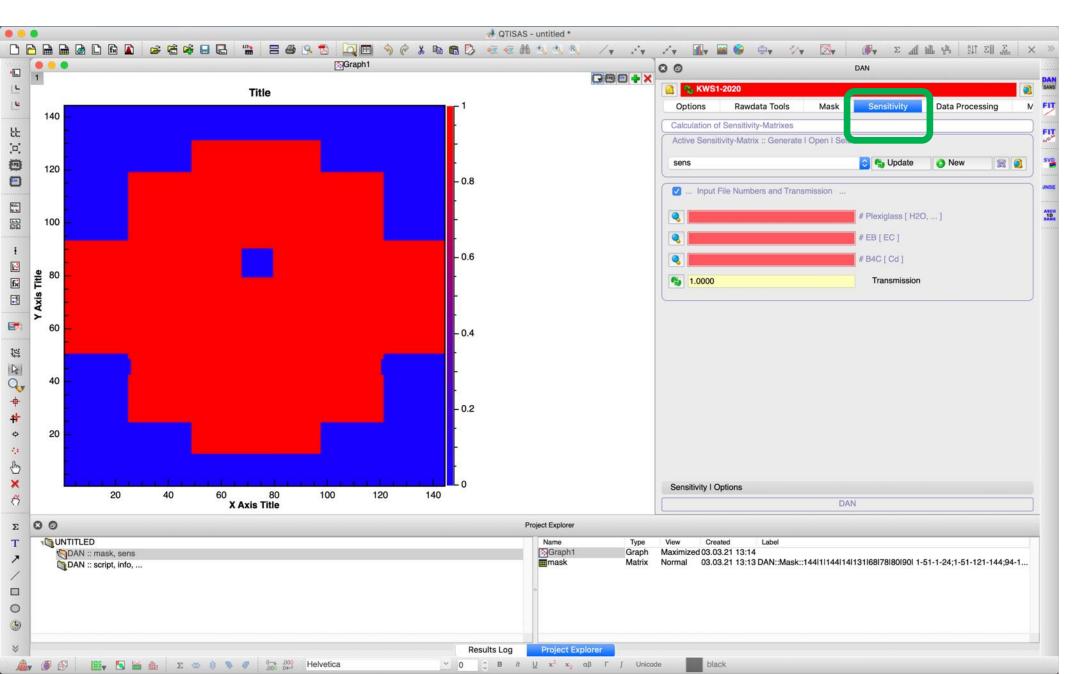


STEP 6: Detector Sensitivity ("Sens") Reading

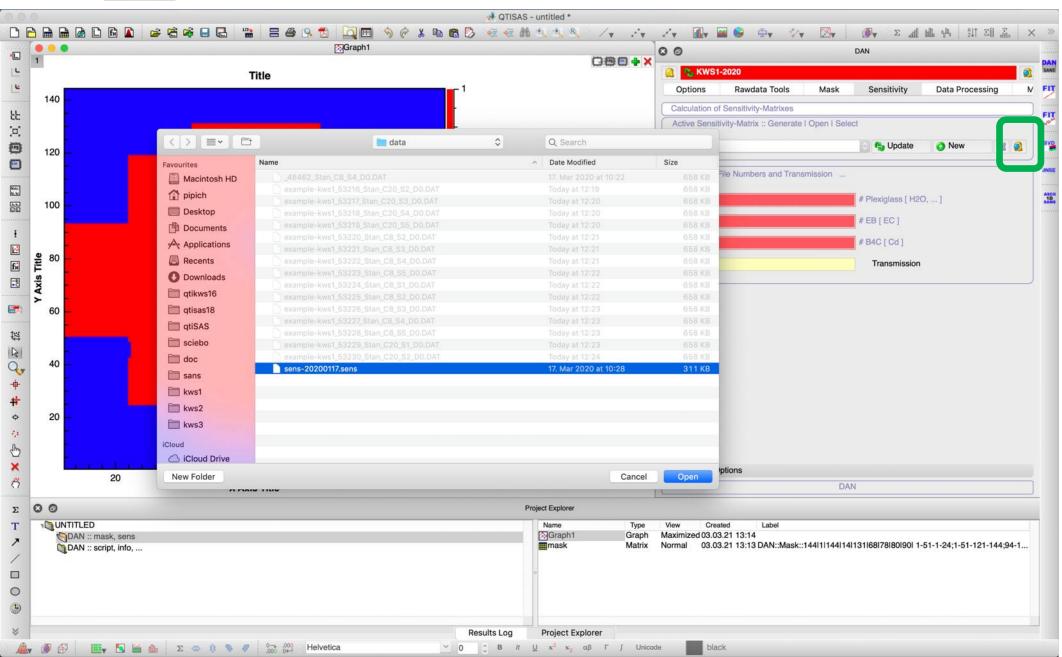
KWS-1 case: ask Local Contact to provide *.sens file

In this example we use: sens-20200117.sens

Go to Sensitivity tab





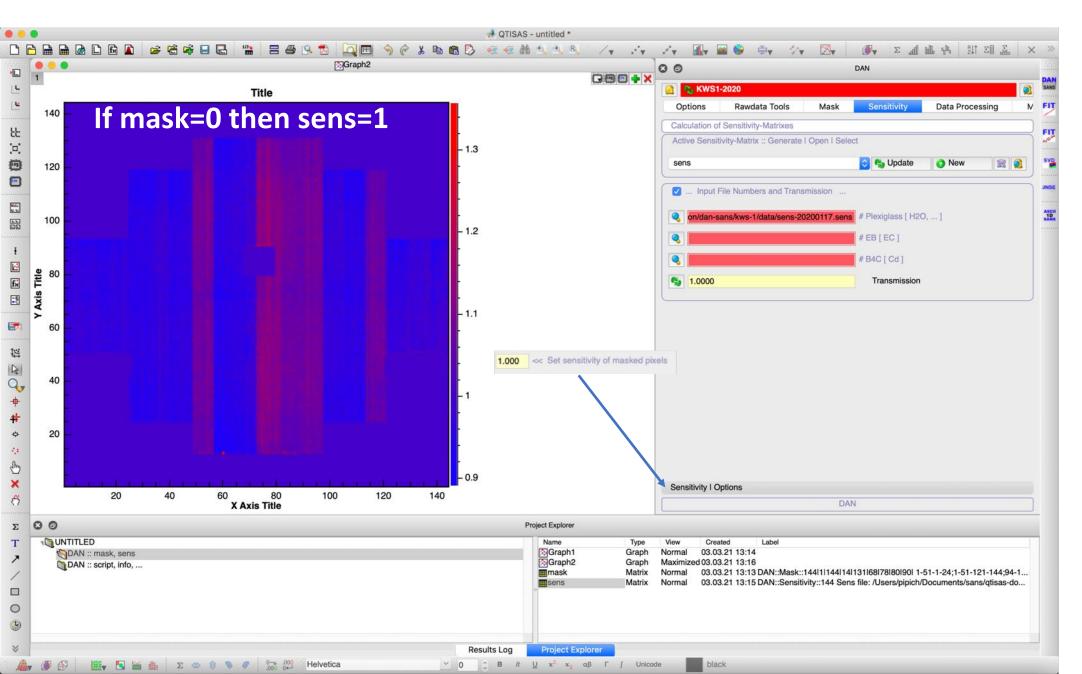


"sens" matrix is created in "DAN:: mask, sens" folder

	1	2	Sens file: /Users/pipich/L	ocuments/sans/qtisas-o	5	kws-1/data/sens-202001	7	DAN DAN	
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12	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
13	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
14	1.00000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
15	1.00000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
16	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
17	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
18	1.00000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+00	1.0000000E+0		
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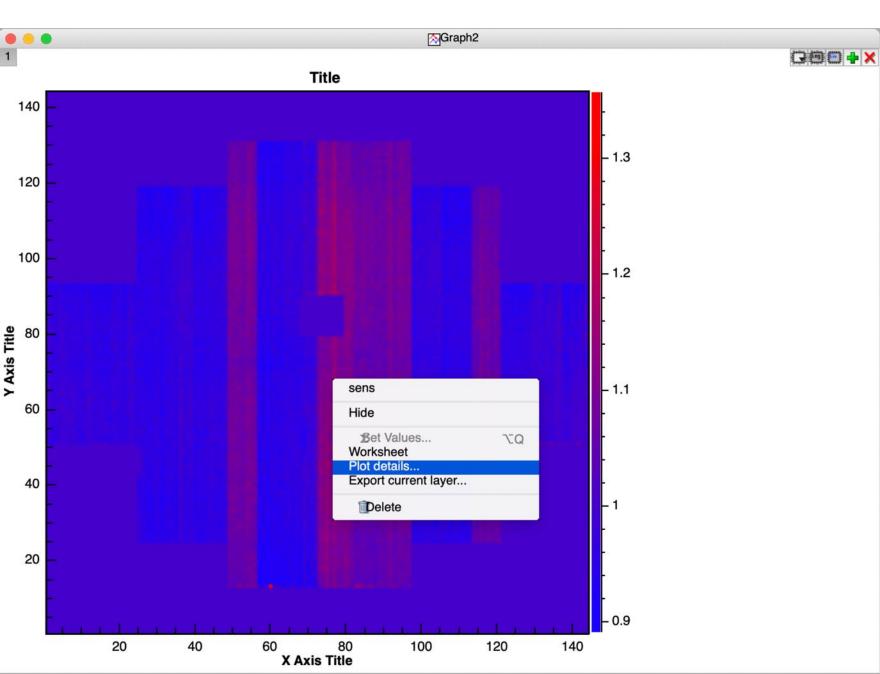
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Plotting Example of "sens" matrix: "Color Fill"

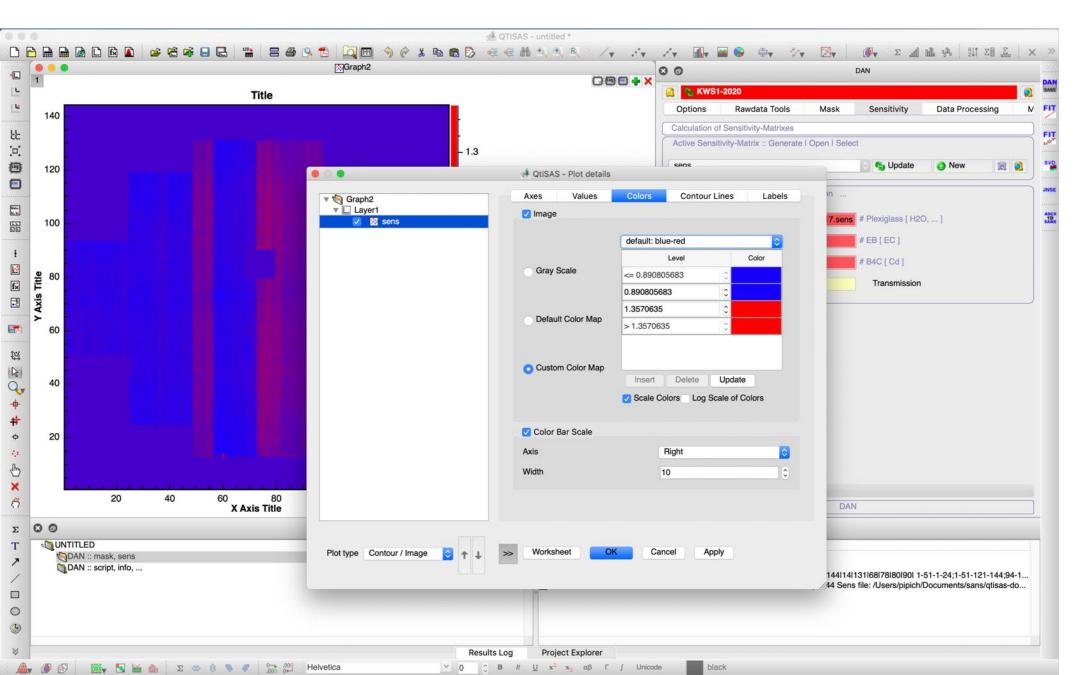


STEP 6a (optional): Change of the Color Map

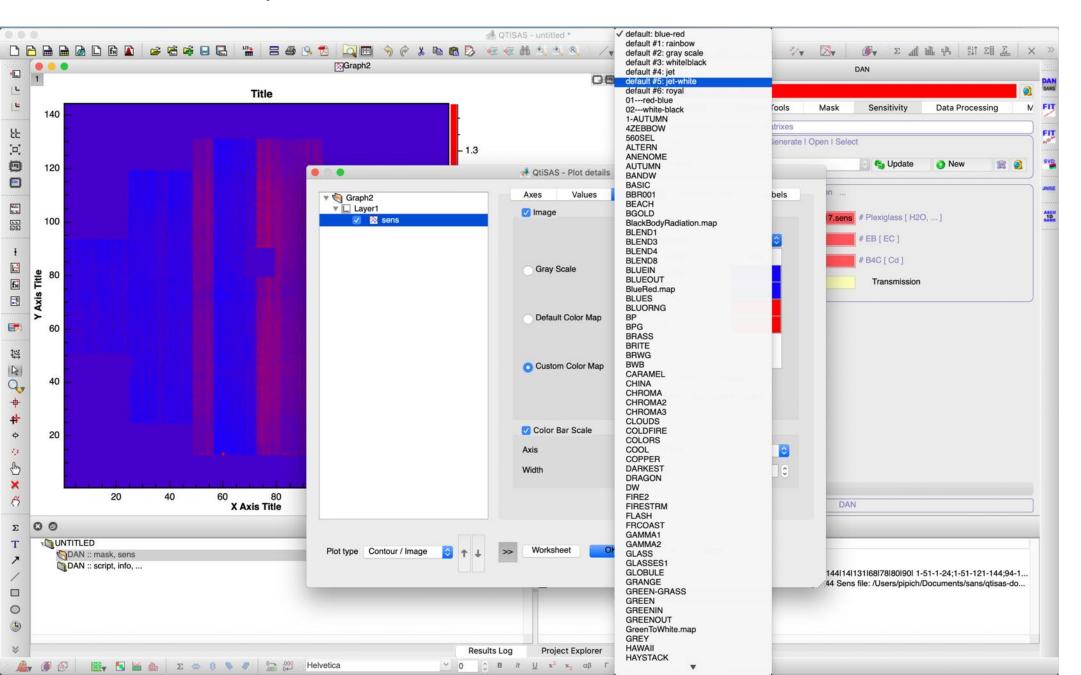
Select "Plot details..."



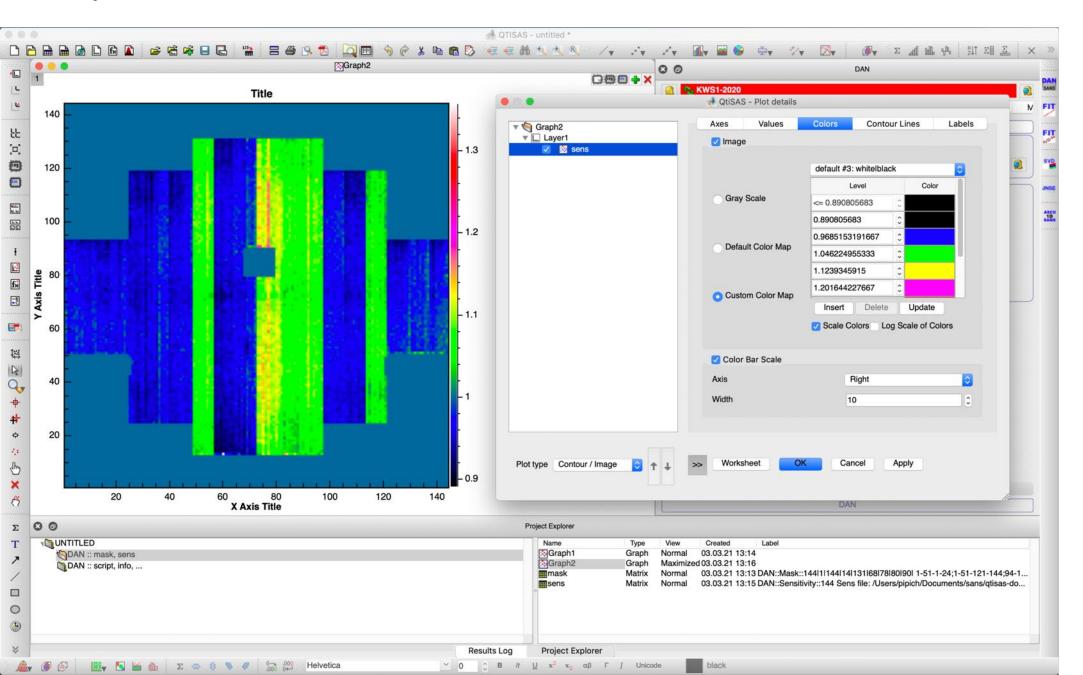
Select "Colors" tab



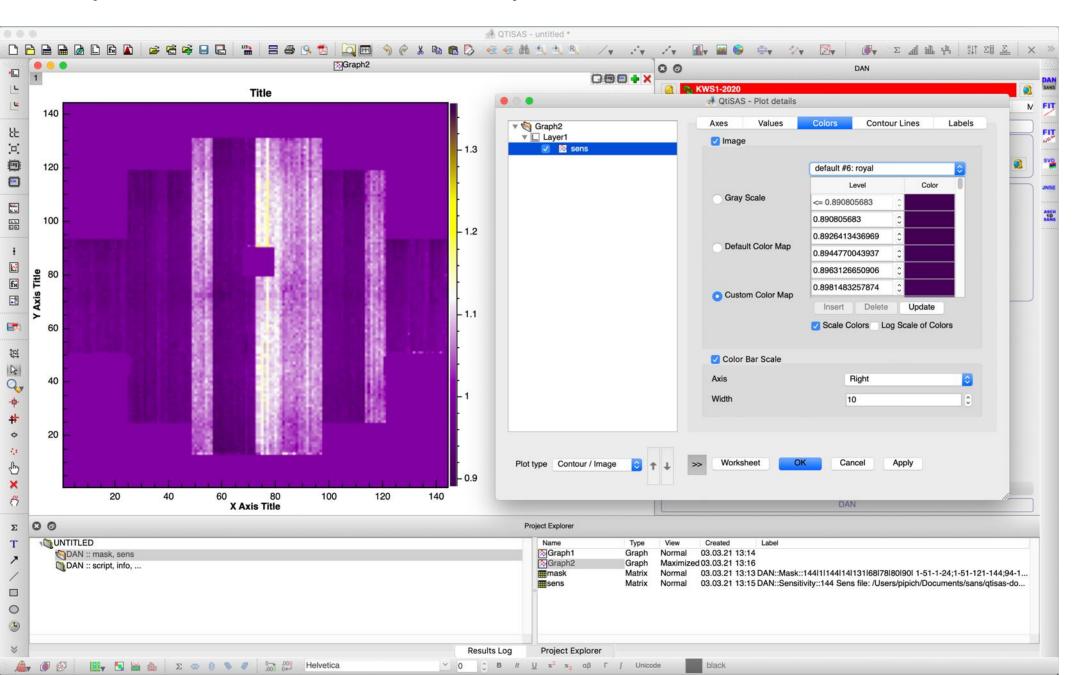
Select "Color Map"



Example: selected "default #3: whiteblack"



Example: selected "default #8: royal"



STEP 6b (alternative): Alternative Detector Sensitivity Calculation

Other way to calculate sensitivity:

we could use a Plexiglass (Water) run with good statistics (>2000000 counts).

10	Plexy	out	53224	8	1.980	4.930	50.0x50.0l12.0x12.0	1.05809e+08	900	117566
11	EB	out	53225	8	1.980	4.930	50.0x50.0l12.0x12.0	1.19434e+07	900	13270.4

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9	53224

1. Push & Select "Plexiglass" run



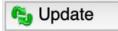
2. Push & Select "Empty Beam" run



3. Push & Select "Dark Current" run



4. Push to calculate transmission



5. Push to calculate sensitivity

This is "Alternative Detector Sensitivity Calculation" In this example we use **STEP 6** method

STEP 7: Filling "Table of Configurations"

DAN-SANS: go to next tab "Data Processing"

Icons meaning:



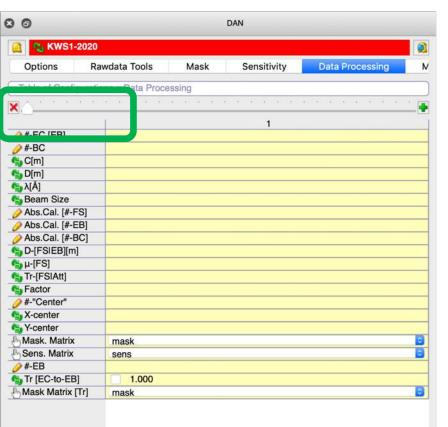
Select from list

Input something (type or double click to select)

Calculate/read

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• C[m]					
• D[m]					
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Abs.Cal. [#-BC]					
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μ-[FS]					
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Set Number of Instrument Configuration: in this example 3



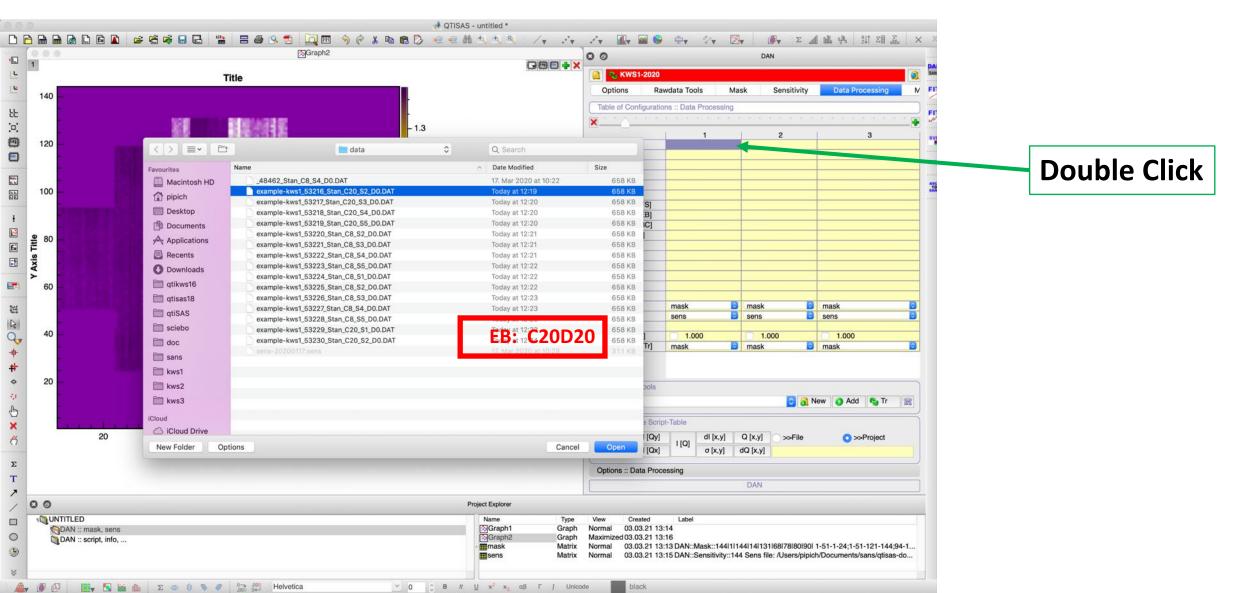


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Empty Beam/Cell Runs





Fill: Empty Beam/Cell Runs



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Fill: Detector Dark Current Runs



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🔩 λ[Å]	4.930		4.930	4.930
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	cond#1	1	cond#2		cond#3	
/#-EC [EB]	53216		55,220		53225	
	48462		48462		48462	
C[m]	20	-	8	-	8	
6 D[m]	19.680		7.680		1.980	
🔩 λ[Å]	4.930		4.930		4.930	
Seam Size	50x50l12x12		50x50l12x12		50x50l12x12	
Abs.Cal. [#-FS]						
Abs.Cal. [#-EB]						
Abs.Cal. [#-BC]						
D-[FSIEB][m]						
😘 μ-[FS]						
Tr-[FSIAtt]						
S Factor				_		
/ #-"Center"						
S-center					1	
N-center						
Mask. Matrix	mask		mask	0	mask	0
Sens. Matrix	sens		sens	0	sens	0
Tr [EC-to-EB]	1.000		1.000		1.000	
Mask Matrix [Tr]	mask		mask	0	mask	0

					٢	💦 New	Add	🕤 Tr	R
rocess a	ctive Script	Table							
l [x,y]	I [Qy]	1101	dl [x,y]	Q [x,y]		le	<mark>0</mark> >>i	Project	
Ι [Q,φ]	I [Qx]	I [Q]	σ [x,y]	dQ [x,y]					
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Fill: Absolute Calibration Runs

8 0			DAN			
[🔩 KWS1-2020						0
Options R	awdata Tools	Mask	Sensiti	vity	Data Processing	N
Table of Configurat	ions :: Data Proces	sing				
×						
	cond#1	T	cond#2		cond#3	
/ #-EC [EB]	53216	53	220		53225	
	48462	48	462		48462	
6 C[m]	20	8			8	
🔩 D[m]	19.680	7.6	680		1.980	
🔩 λ[Å]	4.930	4.9	30		4.930	
ち Beam Size	50x50l12x12	50	x50 12x12		50x50l12x12	
Abs.Cal. [#-FS]						
Abs.Cal. [#-EB]						
Abs.Cal. [#-BC]						
D-[FSIEB][m]						
🎭 μ-[FS]						
Tr-[FSIAtt]						
Sector 6						
#-"Center"						
Scenter X-center						
Notenter						
Hask. Matrix	mask	🙆 m	ask	0	mask	0
Sens. Matrix	sens	🗿 Se	ens	0	sens	0
🥜 #-EB						-
Tr [EC-to-EB]	1.000		1.000		1.000	
Mask Matrix [Tr]	mask	🔁 m	ask	٥)	mask	0



0			DAN	
🚉 🍋 KWS1-2020				
Options Ra	awdata Tools	Mask	Sensitivity	Data Processing
Table of Configurati	ons :: Data Processin	g		
X C C C C C	(a) a (a) a (a) (a)		(a) a a a a a	a na serie de la compañía de la 👔
	cond#1	j.	cond#2	cond#3
🥜 #-EC [EB]	53216	53	3220	53225
	48462	48	3462	48462
🖕 C[m]	20	8		8
🖕 D[m]	19.680	7.	680	1.980
🖕 λ[Å]	4.930	4.	930	4.930
🖕 Beam Size	50x50l12x12	5	x50l12x12	50x50l12x12
Abs.Cal. [#-FS]	53229	53	224	53224
Abs.Cal. [#-EB]	53230	53	225	53225
Abs.Cal. [#-BC]	48462	48	462	48462
D-[FSIEB][m]				
🖕 μ-[FS]				
Tr-[FSIAtt]				
S Factor				
#-"Center"				
X-center				
Y-center				
Mask. Matrix	mask	0 n	nask 📀	mask 🔤
Sens. Matrix	sens	S S	ens 📀	sens
🥜 #-EB				
Tr [EC-to-EB]	1.000	1	1.000	1.000
Mask Matrix [Tr]	mask	o n	nask	mask

Abs.Cal. [#-FS]

Abs.Cal. [#-EB]

Abs.Cal. [#-BC]

						🛐 New	🗿 Add	🍤 Tr	8
rocess ad	ctive Script	-Table							
l [x,y]	I [Qy]	I [Q]	dl [x,y]	Q [x,y]	>>File		O >>	Project	
Ι [Q,φ]	I [Qx]		σ [x,y]	dQ [x,y]					
otione [Data Proce	seina							

to read "Plexi" to Detector Distances from Headers

KWS1-2020					2
Options R	awdata Tools	Mask	Sensitivity	Data Processing	N
Table of Configurati	ons :: Data Proce	ssing			
	cond#	1 1	cond#2	cond#3	
/ #-EC [EB]	53216		3220	53225	
	48462	4	3462	48462	
🖕 C[m]	20	8		8	
D [m]	19.680	7.	680	1.980	
🖕 λ[Å]	4.930	4.	930	4.930	
Beam Size	50x50l12x12	50	0x50l12x12	50x50l12x12	
Abs.Cal. [#-FS]	53229	5	3224	53224	
		5	3225	53225	
Abs.Cal. [#-BC]	48462	4	3462	48462	
D-[FSIEB][m]					
🎭 μ-[FS]					
ち Factor					
#-"Center"					
S-center					
👆 Y-center					
Mask. Matrix	mask		nask	😟 mask	2
Sens. Matrix	sens	🔁 s	ens	sens sens	٢
🥜 #-ЕВ					
Tr [EC-to-EB]	1.000		1.000	1.000	-
Mask Matrix [Tr]	mask	<u> </u>	nask	🖸 mask	0
Script-Table Tools			0	New 🧿 Add 🏻 🔩 Tr	
Process active Scri	pt-Table				
I [x,y] I [Qy]	dl [)		[x,y] >>File	>>Project	
	1 [Q]				
Ι [Q,φ] Ι [Qx]	σ[>	aQ	[x,y]		
Options :: Data Pro	72				

Push : 🐴 **D-[FSIEB][m]**

Options Rawdata Tools Mask Sensitivity Data Processing Table of Configurations :: Data Processing	Table of Co	Ra						
cond.#1 cond.#2 cond.#3 #-BC 48462 48462 48462 C(m) 20 8 8 D(m) 19.680 7.680 1.980 λ(Å) 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53225 53225 Abs.Cal. [#-FS] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 53220 53225 53225 Y-center 0 1.980 1.980 µ-[FS] 1.980 1.980 1.980 µ-[FS] 1.980 1.980 1.980 µ-[FS] 1.980 1.980 1.980 µ-[FS] 1.980 1.980 1.980 µ-[FS] 1.000 1.000 1.000 Mask. Matrix sens sens sens µ-EB 1.000 1.000 1.000 1.000 <			wdata Tools	Ma	sk	Sensitivity	Data Processing	L
cond#1 cond#2 cond#3 #-EC [EB] 53216 53225 #-BC 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 A[A] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 53220 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 µ-[FS] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 µ-[FS] 53 5 5 5 Factor		nfiguratio	ns :: Data Proc	essing				
#+EC [EB] 53216 53220 53225 #+BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 λ[Å] 4.930 4.930 4.930 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-BD] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 L+[FS] 5 5 5 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 L+[FS] 5 5 5 5 Mask. Matrix mask mask mask Sens. Matrix sens sens sens #-EB 1.000 1.000 1.000 1.000 Mask. Matrix [Tr] mask mask mask mask Script-Table Tools I [Q,] I [Q] </td <td></td> <td> (a) (b) </td> <td>$[k_1,\ldots,k_n]=[k_1,\ldots,k_n]=[k_n]$</td> <td>14.1.14</td> <td>1 - A</td> <td>0 = 0 = 0 = 0</td> <td>$(-1) = (1, \dots, n) = (1, \dots, n) = (1, \dots, n)$</td> <td>10</td>		 (a) (b) 	$[k_1,\ldots,k_n]=[k_1,\ldots,k_n]=[k_n]$	14.1.14	1 - A	0 = 0 = 0 = 0	$(-1) = (1, \dots, n) = (1, \dots, n) = (1, \dots, n)$	10
#+EC [EB] 53216 53220 53225 #+BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 λ[Å] 4.930 4.930 4.930 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-BD] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 L+[FS] 5 5 5 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 L+[FS] 5 5 5 5 Mask. Matrix mask mask mask Sens. Matrix sens sens sens #-EB 1.000 1.000 1.000 1.000 Mask. Matrix [Tr] mask mask mask mask Script-Table Tools I [Q,] I [Q] </td <td></td> <td></td> <td>broo</td> <td>#1</td> <td></td> <td>and #2</td> <td>cond #2</td> <td></td>			broo	#1		and #2	cond #2	
#+BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 A[A] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-BD] 48462 48462 48462 Abs.Cal. [#-BD] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 J+"Center"		8		#1		20110#2		-
C[m] 20 8 8 D[m] 19.680 7.680 1.980 A[Å] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-EB] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS]	-						and the second se	-
D[m] 19.680 7.680 1.980 A[Å] 4.930 4.930 4.930 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-FS] 53230 53225 53225 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 J-[FS] Image: Constant of the state			For the second second				A Second second	-
A[Å] 4.930 4.930 4.930 Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53225 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 I'-[FS] I I I Factor I'-[FS] I I Y-center I I I I I Y-center <td></td> <td></td> <td>27.7</td> <td></td> <td></td> <td></td> <td></td> <td>_</td>			27.7					_
Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 Ju-[FS] Tr-[FSIAtt]								
Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] Image: Constant of the state of th		e	50x50l12x12		50x501	12x12		
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Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS]		000000000000000000000000000000000000000	3 T. 7 . 1		and the second second second			
D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] Tr-[FSIAtt] Factor #-"Center" X-center Mask. Matrix mask D mask D mask Sens. Matrix sens D sens D sens #-EB Tr [EC-to-EB] 1.000 1.000 1.000 Mask Matrix [Tr] mask D mask D mask Script-Table Tools Script-Table Tools Process active Script-Table I [X,y] I [Qy] I [Q] dI [x,y] Q [x,y] ⇒>File >>File >>Project I [Q,φ] I [Qx] I [Q] (x,y] dQ [x,y]	-		48462		48462		48462	
μ-[FS] Tr-[FSIAtt] Factor #"Center" X-center X-center Mask. Matrix mask Sens. Matrix sens #-EB 1.000 Tr [EC-to-EB] 1.000 Mask Matrix [Tr] mask Script-Table Tools © New @ Add Process active Script-Table I [Q] I [Q,φ] I [Q] I [Q,φ] I [Q]			1.980		1.980		1.980	
Factor #-"Center" #-"Center"	🖕μ-[FS]							
Factor #-"Center" #-"Center"								
X-center mask mask mask Mask. Matrix mask mask mask Sens. Matrix sens sens sens #-EB 1.000 1.000 1.000 Tr [EC-to-EB] 1.000 1.000 1.000 Mask Matrix [Tr] mask mask mask Script-Table Tools © № № № Add Add Tr Process active Script-Table I [Ω, φ] I [Ω] α [x,y] ∞ >>File ∞ >>Project I [Q,φ] I [Ω] α [x,y] α [x,y] α [x,y] ∞ >>Project								
Y-center mask Ω mask Ω Mask. Matrix mask Ω mask Ω mask Sens. Matrix sens 2 sens 2 sens #-EB 1.000 1.000 1.000 1.000 Mask Matrix [Tr] mask B mask B mask Mask Matrix [Tr] mask B mask C Mask Script-Table Tools C Q New Add Tr Process active Script-Table I [Q] I [Q] Q [x,y] >>File >>Project I [Q,φ] I [Q] I [Q] σ [x,y] dQ [x,y] >>File >>Project	#-"Center	i.			2			
Mask. Matrix mask D mask D mask Sens. Matrix sens D sens D sens #-EB	X-center							
Sens. Matrix sens B sens B sens B sens P Sens Sens Sens Sens Sens	Y-center							
#-EB 1.000 1.000 1.000 Tr [EC-to-EB] 1.000 1.000 1.000 Mask Matrix [Tr] mask mask mask Script-Table Tools ♥ ♠ New Add ♥ ➡ Tr Process active Script-Table I [Q] I [Q] Q [x,y] >>File >>Project I [Q, φ] I [Q] σ [x,y] dQ [x,y] >>File >>Project	Mask. Mat	rix	mask	0	mask	0	mask	
Tr [EC-to-EB] 1.000 1.000 1.000 Mask Matrix [Tr] mask mask mask Script-Table Tools ♥ ● Add ♥ ■ Tr Process active Script-Table I [Q] I [Q] dI [x,y] >>File >>Project I [Q,φ] I [Q] σ [x,y] dQ [x,y] >>File >>Project	Sens. Mat	rix	sens	0	sens	0	sens	
Mask Matrix [Tr] mask © mask © mask Script-Table Tools © New O Add • Tr Process active Script-Table I [Q] I [Q] σ (x,y) >>File >>Project I [Q,φ] I [Q] σ (x,y) dQ (x,y) >>File >>Project	<i>)</i> #-EB							
Script-Table Tools Process active Script-Table $I[x,y]$ $I[Qy]$ $I[Q]$ $dI[x,y]$ \gg File \gg Project $I[Q,\varphi]$ $I[Qx]$ $I[Q]$ $\sigma[x,y]$ $dQ[x,y]$			1.000		1.0	000	1.000	
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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	[🗟 🕄	New 🧿 Add 🏻 🔩 Tr	
I [Q,φ] I [Qx] I [Q] σ [x,y] dQ [x,y]	Process ac	tive Scrip	t-Table					
I [Q,φ] I [Qx] σ [x,y] dQ [x,y]	l [x,y]	I [Qy]	l IOI dI	[x,y]	Q [x,y]	>>File	>>Project	
Ontions " Data Processing	Ι [Q,φ]	I [Qx]	σ	[x,y]	dQ [x,y]			
	Options D	ata Proc	essina					
DAN								

Push :

🔁 μ-[FS]

to calculate mu-factor of "Plexi" for every configuration

KWS1-2020				0
Options R	awdata Tools 🛛 N	lask Sensitivity	Data Processing	1
Table of Configurat	ions :: Data Processing			
×	· · · · · · · · · · · · · ·	$(\mathbf{x}_{i}) = (\mathbf{x}_{i}) = (\mathbf{x}_{i}) = (\mathbf{x}_{i}) = (\mathbf{x}_{i}) = (\mathbf{x}_{i}) = \mathbf{x}_{i}$	(-n) = (1-n) + (1-n) + (1-n)	1
	cond#1	cond#2	cond#3	-0
/ #-EC [EB]	53216	53220	53225	
	48462	48462	48462	
C[m]	20	8	8	
D[m]	19.680	7.680	1.980	
δ.[Å]	4.930	4.930	4.930	
🐁 Beam Size	50x50l12x12	50x50l12x12	50x50l12x12	
Abs.Cal. [#-FS]	53229	53224	53224	
Abs.Cal. [#-EB]	53230	53225	53225	
Abs Cal [#-RC]	48462	48462	48462	_
Solution (Selection (S	1.980	1.980	1.980	
🔩 μ-[FS]				
Tr-[FSIAtt]				
St. Footor				
#-"Center"				
S-center				
🎭 Y-center				
Hask. Matrix	mask	🕘 mask 🗾 🖸	mask	0
Sens. Matrix	sens	sens 🖸	sens	0
🥜 #-EB				
Tr [EC-to-EB]	1.000	1.000	1.000	
Mask Matrix [Tr]	mask	🕘 mask 🚺	mask	0
Script-Table Tools		18	New 🧿 Add 🛯 🐔 Tr	
Process active Scr	ipt-Table			
I [x,y] I [Qy]	dl [x,y]	Q [x,y] >>File	>>Project	
Ι [Q,φ] Ι [Qx]	I [Q] σ [x,y]	dQ [x,y]		
Options :: Data Pro				_

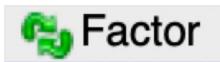
Cond#1 cond#2 cond#3 #-EC [EB] 53216 53220 53225 #-BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt] Factor	🛯 🔧 KWS1-2							
cond#1 cond#2 cond#3 #-EC [EB] 53216 53225 #-BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt] 5.9064E-02 5.9064E-02 5.9064E-02 Factor	Options	Raw	data Tools	Ma	sk	Sensitivity	Data Processing	N
cond#1 cond#2 cond#3 #-EC [EB] 53216 53225 #-BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-BE] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt] Factor	Table of Config	uration	s :: Data Pr	ocessing				
cond#1 cond#2 cond#3 #-EC [EB] 53216 53220 53225 #-BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 A[Å] 4.930 4.930 4.930 Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-FS] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 Tr-[FSIAtt]	1 × × × × ×	6 - 45 - 54	$F_{i}=0$	0 = 0 = 0 = 0	4) (k	a - 1 - 1 - 1	$(0,1,\infty) \in \mathbb{R}^{n} \setminus (0,\infty) \in \mathbb{R}^{n} \setminus (0,\infty)$	1 10
#-EC [EB] 53216 53220 53225 #-BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 4.930 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt] Factor								
#-BC 48462 48462 48462 C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 J-[FSIEB][m] 1.980 1.980 1.980 J-[Conter"	#-EC [EB]			1#1		ond#2		
C[m] 20 8 8 D[m] 19.680 7.680 1.980 λ[Å] 4.930 4.930 4.930 Beam Size 50x50112x12 50x50112x12 50x50112x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt]							a second s	
D[m] 19.680 7.680 1.980 A[Å] 4.930 4.930 4.930 Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt]								
λ(Å) 4.930 4.930 4.930 Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 pu-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt] Factor 5 5 #-"Center"								
Beam Size 50x50l12x12 50x50l12x12 50x50l12x12 Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 Tr-[FSIAtt] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt] Factor 5.9064E-02 5.9064E-02 Y-center"								
Abs.Cal. [#-FS] 53229 53224 53224 Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 D-[FSIEB][m] 1.980 1.980 1.980 p.[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt]		1		2	1007070000	2x12		_
Abs.Cal. [#-EB] 53230 53225 53225 Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 p-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt]								
Abs.Cal. [#-BC] 48462 48462 48462 D-[FSIEB][m] 1.980 1.980 1.980 □ μ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 □ Tr-[FSIAtt] □ Factor □ #-"Center" □ ↓ "*"Center" □ ↓ "*"Center □ ↓ "**"Center □ ↓ "**"Center □ ↓ "***********************************			2.22.23.22.22.2				and the second se	
D-[FSIEB][m] 1.980 1.980 1.980 µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt]								
µ-[FS] 5.9064E-02 5.9064E-02 5.9064E-02 Tr-[FSIAtt]								
Factor #-"Center" #-"Center"			5.9064E-02	2	5.90648	E-02	5.9064E-02	
Factor #-"Center" #-"Center"	Tr-[FSIAtt]							-
Sens. Matrix sens								
Y-center mask	#-"Center"				1			
Mask. Matrix mask mask mask mask Sens. Matrix sens	X-center							
Sens. Matrix sens	Y-center				1			
#-EB 1.000 1.000 Tr [EC-to-EB] 1.000 1.000 Mask Matrix [Tr] mask mask mask Script-Table Tools Image: Construction of the second	Mask. Matrix	[mask	0	mask	0	mask	0
Tr [EC-to-EB] 1.000 1.000 Mask Matrix [Tr] mask mask mask Script-Table Tools Image: Construct the second se	Sens. Matrix	(sens	0	sens	0	sens	0
Mask Matrix [Tr] mask imask im								
Script-Table Tools Process active Script-Table I [x,y] I [Qy] U[Q] I [x,y] Q [x,y] >>File O >>Project	Tr [EC-to-EB]		1.000		1.0	000	1.000	
Image: Script-Table I [x,y] I [Qy] I [Qy] Q [x,y] >>File >>Project	Mask Matrix [[r]	mask		mask	0	mask	٥
I [x,y] I [Qy] I [Q] dI [x,y] Q [x,y] >>File O>>Project	Script-Table To	ols				S 🕄	lew 👩 Add 🔩 Tr	
I [x,y] I [Qy] I [Q] dI [x,y] Q [x,y] >>File O>>Project	Process active	Script-	Table					
	l [x.v]	[Qv]		dl [x.y]	Q [x,v]	STIL		
			1 [Q]					
	τ[Q,φ] Τ	[QX]		0 [x,y]	aQ [x,y]			
Options :: Data Processing	Ontinue of Date							

Push : • Tr-[FSIAtt] to read transmission of "Plexi" for every configuration

🔒 💊 KWS1	-2020								0
Options	Rav	wdata Too	ls	Mas	sk	Sensitivity	Data	Processing	N
Table of Conf	iguratio	ns :: Data	Processin	g					
1		A 8 A			A. A	A A A A	* <u>*</u>		
			ond#1	1		ond#2	E.	cond#3	
#-EC [EB]		53216	//0// /		53220	0110#2	53225	cond. #o	
)#-BC		48462		-	48462		48462		
C[m]		20			8		8		
D[m]		19.680			7.680		1.980		
λ[Å]		4.930			4.930		4.930		
Beam Size		50x50112	2x12		50x5011	2x12	50x50112	2x12	
Abs.Cal. [#-	FS]	53229			53224		53224		
Abs.Cal. [#-		53230			53225		53225		
Abs.Cal. [#-	BC]	48462			48462		48462		
D-IESIEBIIn	nl	1.980			1.980		1.980		
μ-[FS]	_	5. 064E	-02		5.9064	E-02	5.9064E	-02	
Tr-[FSIAtt]									_
Factor									
#-"Center"									
X-center							-		
Y-center									
Mask. Matrix	c	mask			mask	3	mask		0
Sens. Matrix		sens			sens 💿		sens		0
#-EB									
Tr [EC-to-El	B]	1.0	00		1.0	000	1.000		
Mask Matrix	[Tr]	mask		0	mask	0	mask		٥
Script-Table	Tools					۵	New 🧿	Add 🏾 🍤 Tr	
Process activ	ve Scrip	t-Table							
l [x,y]	I [Qy]		dl [x,y]		Q [x,y]	>>File	0	>>Project	
Ι [Q,φ]	I [Qx]	1 [Q]	σ [x,y]	C	dQ [x,y]				

Ontions	Rawdata Tools	Mask	Sensitivity	Data Processing	
Options	Rawdata Tools	Mask	Sensitivity	Data Processing	
Table of Configu	rations :: Data Proc	essing			
× · · · · · ·		1	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		
`	cond	#.4	cond#2	Oliv herea	
/ #-EC [EB]	53216	53220		cond#3	
/#-BC	48462	4846	7/	48462	
• C[m]	20	8		8	
D[m]	19.680	7.680	1	1.980	
 λ[Å] 	4.930	4.930		4.930	
Beam Size	50x50 12x12) 0112x12	50x50l12x12	
Abs.Cal. [#-FS		53224		53224	-
Abs.Cal. [#-EE		5322		53225	-
Abs.Cal. [#-BC		4846		48462	
D-[FSIEB][m]	1.980	1.980	-	1.980	
ς_μ-[FS]	5.9064E-02	5.906	4E-02	5.9064E-02	
Tr-[FSIAtt]	0.4189	0.418	9	0.4189	
Factor					
> #-"Center"					
X-center					
Y-center					
Mask. Matrix	mask	😑 masl	< 🚺	mask	
Sens. Matrix	sens	sens		sens	
Tr [EC-to-EB]	1.000		1.000	1.000	
Mask Matrix [T	r] mask	📴 masl	د 💿	mask	
Script-Table Too	ols		8	New 🧿 Add 🔩 Tr	-
Process active	Script-Table				
I [x,y] I [Qy] dl	[x,y] Q [x,y]	Solution >>>File	>>Project	
Ι [Q,φ] Ι [Qx] Ι[Q] σ	[x,y] dQ [x,y	1		

Push :



to calculate Absolute Factor for every configuration

🤶 💊 KWS1-2020						0
Options Ra	wdata Tools	Ma	sk	Sensitivity	Data Processing	1
Table of Configuratio	ns :: Data Proce	ssing				
	a a a a a	10.10	- 1 - 1 - 1	6 14 1947 AN 14		1
	cond#			ond#2	cond#3	
/ #-EC [EB]	53216		53220	0110#2	53225	
	48462		48462		48462	
C[m]	20		8		8	
D[m]	19.680		7.680		1.980	
Δ[Å]	4.930		4.930		4.930	
Beam Size	50x50l12x12		50x5011	2x12	50x50l12x12	
Abs.Cal. [#-FS]	53229	_	53224		53224	
Abs.Cal. [#-EB]	53230		53225		53225	
Abs.Cal. [#-BC]	48462		48462		48462	
D-[FSIEB][m]	1.980		1.980		1.980	
	E-02		5.9064E	-02	5.9064E-02	
Tr-[FSIAtt]	0.4189		0.4189		0.4189	
S Factor						
/ #-"Center"		_				
V contor						
🔩 Y-center						
Mask. Matrix	mask	0	mask	0	mask	0
Sens. Matrix	sens	0	sens	0	sens	0
		-				
Tr [EC-to-EB]	1.000		1.0	00	1.000	
Mask Matrix [Tr]	mask	0	mask	0	mask	0
Script-Table Tools Process active Scrip 1 [x,y] 1 [Qy]	t-Table	cvl	Q [x,y]	Sile	New O Add S Tr	
1 [Q,φ] 1 [Qx]	1 [Q]					
	σ[x		dQ [x,y]			

DAN

👔 🐧 KWS1	-2020						
Options	Rav	vdata Too	ls N	Mask	Sensitivity	Data Pro	cessing
Table of Confi	guratio	ns :: Data	Processing	1			
	8 B.	1. 1. A.		1.11	- 1. S. 1. 1. 1.	1. 1. 1. 1. 1. 1.	- 10 B (B - 10 B
			ond#1	10	cond#2		nd#3
/ #-EC [EB]		53216	/10. #1	5322		53225	nu. #0
		48462		4846	2	48462	
🖕 C[m]		20		8		8	
D[m]		19.680		7.680		1.980	
λ[Å]	-	4.930		4.930		4.930	
Beam Size		50x50l12	2x12		0112x12	50x50l12x12	
Abs.Cal. [#-F	SI	53229		5322		53224	
Abs.Cal. [#-	() (53230		5322	5	53225	
Abs.Cal. [#-		48462		4846	2	48462	
D-[FSIEB][m		1.980		1.980		1.980	
μ-[FS]		5.9064E-02		5.906	4E-02	5.9064E-02	
Tr-[FSIAtt]		0.4189		0.418		0.4189	
Factor		5.3390E	+04	1.765	4E+03	1.1734E+02	
/ #-"Center"		associate and the second se	046600		00.751.704825	envelopment in the solution	
X-center							
Y-center							
Mask. Matrix		mask		o mas	< 🖸	mask	0
Sens. Matrix		sens		sens		sens	0
Tr [EC-to-EB	5]	1.00	00		1.000	1.000	
Mask Matrix	[Tr]	mask		masl	< 🔁	mask	0
he s							
Script-Table T	ools						
						New 👩 Add	ち Tr 👔
						- Aud	
Process activ	e Scrip	t-Table					
[x,y]	I [Qy]	1	ما اله	0.64			
I IX.VI		100000000000000000000000000000000000000	dl [x,y]	Q [x,y]	>>File		Project

DAN

Options :: Data Processing

Results Log

DAN :: Mask template is created: "mask". Edge: 1 | 144 | 14 | 131 and Beam-Stop: 68 | 78 | 80 | 90. DAN :: Abs.Factor | Condition #1 | 5.3390E+04±1.7510E-03 DAN :: Abs.Factor | Condition #2 | 1.7654E+03±2.1178E-05 DAN :: Abs.Factor | Condition #3 | 1.1734E+02±1.4076E-06

Results Log: Output

Fill: "Center "Runs

"Center "Runs: strongly scattering samples (near beam-stop) to calculate beam center positions. Often we use our standard sample "Corundum" as sample to calculate beam center positions.

8 0			D	AN		
🙆 🌯 KWS1-2020)					0
Options F	awdata Tools	Ma	sk	Sensitivity	Data Pro	cessing N
Table of Configurat	tions :: Data Proce	essing				
× · · · · · ·		4. A. A	(14)) - 4(-	99 - 41 - 41 - 47 - 47 - 47	14 A 14 A 14	-
	cond#	1	15	cond#2	CO	nd#3
/ #-EC [EB]	53216		53220		53225	
	48462		48462	-	48462	j.
6 C[m]	20		8		8	
6 D[m]	19.680		7.680		1.980	
🔩 λ[Å]	4.930		4.930		4.930	
Seam Size	50x50l12x12		50x50	12x12	50x50l12x12	
Abs.Cal. [#-FS]	53229		53224		53224	
Abs.Cal. [#-EB]	53230		53225		53225	
Abs.Cal. [#-BC]	48462		48462	-	48462	
D-[FSIEB][m]	1.980		1.980		1.980	
🖕 μ-[FS]	5.9064E-02		5.9064	E-02	5.9064E-02	
Tr-[FSIAtt]	0.4189		0.4189	D:	0.4189	
Sactor	5.3390E+04	_	1.7654	E+03	1.1734E+02	
/ #-"Center"		1				
S X-center						
Sy-center						
Mask. Matrix	mask	0	mask	0	mask	0
Sens. Matrix	sens	0	sens	2	sens	0
Tr [EC-to-EB]	1.000		1.	000	1.000	
Mask Matrix [Tr]	mask	0	mask	0	mask	0



🧕 🔩 KWS1-20	20				6
Options	Rawdata Tools	Ma	sk Sensitivity	Data Processing	
Table of Configur	ations :: Data Proces	sing			
		~		$\mathbf{r}_{i}=\left(\mathbf{r}_{i}^{i}\right)\left(\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}\right)\left(\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}\right)\left(\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}\right)\left(\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}-\mathbf{r}_{i}^{i}\right)\left(\mathbf{r}_{i}^{i}-\mathbf{r}_{$	1
N	cond#1		cond#2	cond#3	-
	53216		53220	53225	
	48462	_	48462	48462	
C[m]	20		8	8	
D[m]	19.680	_	7.680	1.980	
λ[Å]	4.930		4.930	4.930	
Beam Size	50x50l12x12		50x50l12x12	50x50l12x12	
Abs.Cal. [#-FS]	53229	53229		53224	
Abs.Cal. [#-EB]	53230		53225	53225	
Abs.Cal. [#-BC]	48462		48462	48462	
D-[FSIEB][m]	1.980		1.980	1.980	
μ-[FS]	5.9064E-02		5.9064E-02	5.9064E-02	
Tr-[FSIAtt]	0.4189		0.4189	0.4189	
actor Factor	5.3390E+04		1.7654E+03	1.1734E+02	
#-"Center"	53218		53222	53227	
S-center					
Sy Y-center					
Mask. Matrix	mask	0	mask	mask	0
Sens. Matrix	sens	0	sens	sens	0
<i>🏈</i> #-EB					
Tr [EC-to-EB]	1.000		1.000	1.000	
Mask Matrix [Tr]	mask	0	mask	mask	0

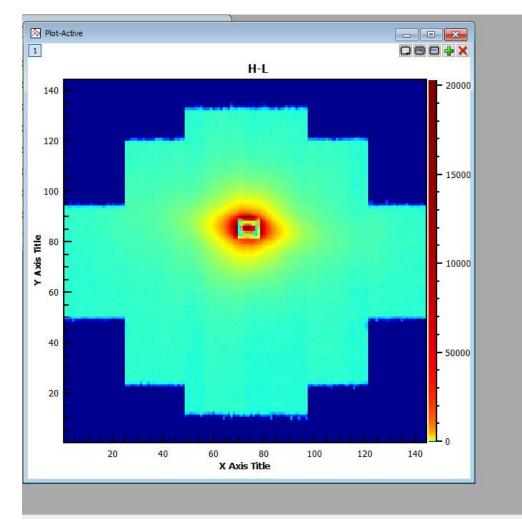
					0	👩 New	🗿 Add	🍤 Tr	8
Process a	ctive Script-	Table							
I [x,y]	I [Qy]	1101	dl [x,y]	Q [x,y]) >>Fi	le	o >>	Project	
		I [Q]	σ [x,y]	dQ [x,y]					

We use "H-L" sample as "Center" runs

#-"Center"

Fill: "Center "Runs

"Center "Runs: strongly scattering samples (near beam-stop) to calculate beam center positions. One can use a typical user sample which scatters sufficiently around the beam stop. This can be checked in Rawdata Tools tab/Fast Info Extractor/Plot Matrix [Plot Active].



🔝 党 к	W51-2020						
Options	Rawdata Tools	Mask Ser	nsitivity	Data Proce	essing	Merge	
Rawdata T	Tools						
:: Header((s) - to - Info-Table	11		Image(s) - t	o - Info	-Matrix ::	
		~ <u>6</u>	0				~ 🗟
Compact	t 🗌 +	Matrixes	col	umns: 3			
Detector	r Sum <mark>for active Ma</mark>	sk		Mask 🔲	Sens	□ Norm	As
:: Header	(s) - Info Extractor	41	T/	Fast Info Ex			
		 Image: Second sec	a –	t Matrix [Plot			
Sample		✓ + Ac		53222	Acuve	53222	
				53219	^		
··· Marga ·	: Raw Files ::			53220 53221 53222			
in the get	Select Files & Me	erne		53223	1	xes ::	
Merne Files i	in Active Table (2 s		from	53225 53226		1 days	
-	s & Create Table	Merge		53227 53228	Ŷ	blder	
Select Files	a create table	Merge	—)(L	88.		Extract	



👆 X-center

or/and

ち Y-center

to calculate center of the beam for all configurations

73.514±0.143	73.138±0.191	72.691±0.259
84.793±0.066	85.597±0.086	83.711±0.080

👌 🐔 KWS1-2020)			
Options R	awdata Tools	Mask	Sensitivity	Data Processing
Table of Configural	lions :: Data Proces	sing		
	cond#1	1	cond#2	cond#3
#-EC [EB]	53216	5322	0	53225
	48462	4846	2	48462
C[m]	20	8		8
D[m]	19.680	7.68	D	1.980
• λ[Å]	4.930	4.93	D	4.930
Beam Size	50x50l12x12	50x5	0 12x12	50x50l12x12
Abs.Cal. [#-FS]	53229	5322	4	53224
Abs.Cal. [#-EB]	53230	5322	5	53225
Abs.Cal. [#-BC]	48462	4846	2	48462
D-[FSIEB][m]	1.980	1.98	D	1.980
μ-[FS]	5.9064E-02	5.90	64E-02	5.9064E-02
Tr-[FSIAtt]	0.4189	0.41	89	0.4189
Factor	5.3390E+04	1.76	54E+03	1.1734E+02
	3218	5322	2	53227
X-center				
Y-center				
Mask Matrix	hask	😒 🛛 mas	k 😼	mask
Sens. Matrix	sens	Sen:	s 🚺	sens
Tr [EC-to-EB]	1.000		1.000	1.000
Mask Matrix [Tr]	mask	😑 mas	k 📴	mask

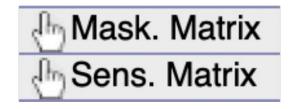
l [x,y]	tive Script	- Table	dl [x,y]	Q [x,y]	>>File	• • • •	Project	
1 [x,y]		1 [Q]			>>rile	0 >>	rojeci	
Ι [Q,φ]	I [Qx]	.1-1	σ [x,y]	dQ [x,y]				

Options	2020						
Options							
	Raw	data Too	ls M	lask	Sensitivity	Data Processing	
Table of Config	uration	s :: Data	Processing				
	9. 19. F		6 23 - 42 36	(y)=(y-1)y	$\Phi_{i}^{\prime}=\Phi_{i}^{\prime}=\Phi_{i}^{\prime}=\Phi_{i}^{\prime}=\Phi_{i}^{\prime}$	(-2) = (2, -2) = (2, -2) = (2, -2) = (2, -2)	1.0
	1		ond#1	TE CONTRACTOR	cond#2	cond#3	_
/ #-EC [EB]	1	53216		53220	00110. #2	53225	-
		48462		48462		48462	
C[m]		20		8		8	_
D[m]		19.680		7.680		1.980	_
ς λ[Å]		4.930		4.930		4.930	
Beam Size		50x50l12	x12	50x50l	12x12	50x50l12x12	
Abs.Cal. [#-F	SI	53229		53224		53224	_
Abs.Cal. [#-E		53230		53225		53225	
Abs.Cal. [#-B	CI	48462		48462	0	48462	_
D-[FSIEB][m] 1.980			1.980		1.980		
μ-[FS]			-02	5.9064	E-02	5.9064E-02	
Tr-[FSIAtt]	1	0.4189		0.4189		0.4189	
Factor		5.3390E-	+04	1.7654E+03		1.1734E+02	
/ #-"Center"		53218		53222		53227	
X-center		73.514±0	0.143	73.138±0.191		72.691±0.259	
Y-center		84.793±0	0.066	85.597	±0.086	83.711±0.080	
Mask. Matrix		mask	K	mask	0	mask	
Sens. Matrix		sens		sens	3	sens	
							_
Tr [EC-to-EB]		1.00	00	1.	.000	1.000	
Mask Matrix [Tr]	mask	k	mask	0	mask	_

DAN

! Check errors to be sure about correctness of center determination !

Select correct "Sensitivity" and "Mask" Matrixes



🚊 🔩 KWS1-20	20				0	
Options	Rawdata Tools	Mask	Sensitivity	Data Processing	N	
Table of Configu	rations :: Data Proces	sing				
		(* 1. (*)	- 195 - F - F - F	$(\theta_{i}, \theta_{i}, \theta_{i}, \theta_{i}, \theta_{i}, \theta_{i}, \theta_{i}, \theta_{i}, \theta_{i}, \theta_{i})$	1	
.	cond#1	1	cond#2	cond#3		
/ #-EC [EB]	53216	5322	20	53225		
	48462	4846	2	48462		
ち C[m]	20	8		8		
D[m]	19.680	7.68	0	1.980		
🔩 λ[Å]	4.930	4.93	0	4.930		
ち Beam Size	50x50l12x12	50x5	0 12x12	50x50l12x12		
Abs.Cal. [#-FS]	53229	5322	24	53224		
Abs.Cal. [#-EB]	53230	5322	5	53225		
Abs.Cal. [#-BC] 48462	4846	2	48462		
D-[FSIEB][m]	1.980	1.98	0	1.980		
🖕 μ-[FS]	5.9064E-02	5.90	64E-02	5.9064E-02		
Tr-[FSIAtt]	0.4189	0.41	89	0.4189		
S Factor	5.3390E+04	1.76	54E+03	1.1734E+02		
/ #-"Center"	53218	5322	2	53227		
N-center	73.514±0.143	73.1	38±0.191	72.691±0.259		
😋 Y-center	84.793±0.066	85.5	97±0.086	83.711±0.080		
Hask. Matrix	mask	🗧 mas	k 😒	mask	0	
Sens. Matrix	sens	😂 🤇 sen:	s 😒	sens	\$	
<i>⊘</i> #-EB					-	
Tr [EC-to-EB]	1.000		1.000	1.000		
Mask Matrix [Tr] mask	🖸 mas	ik 💿	mask	0	

					٢	💦 New	🗿 Add	🔩 Tr	1
Process a	ctive Script-	Table							
l [x,y]	I [Qy]	1.01	dl [x,y]	Q [x,y]	>>Fi	le	0 >>	Project	
Ι [Q,φ]	I [Qx]	1 [Q]	σ [x,y]	dQ [x,y]					

Hask. Matrix	mask ᅌ	mask 📀	mask
🗄 Sens. Matrix	sens	sens	sens

"Mask" and "Sens" matrixes could be different for different configurations

Fill: Empty beam runs.

To calculate Transmission of Empty Cell In this example: EC=EB, Tr(EC)=1

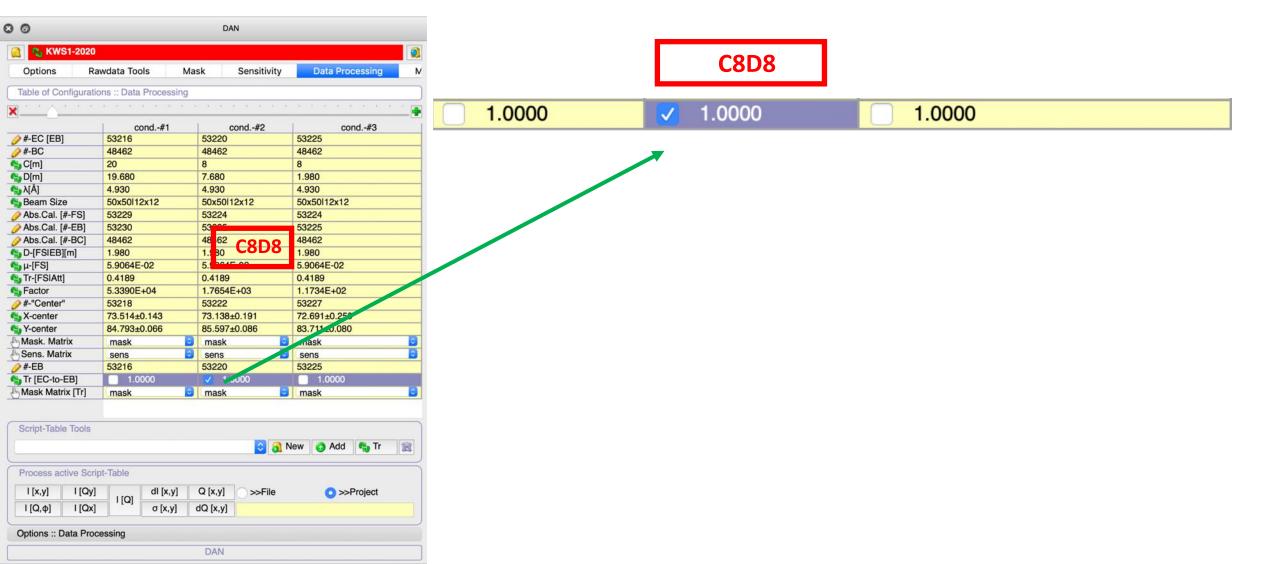
🛐 🔩 KWS1-202					
Options	Rawdata Tools	Mask	Sensitivity	Data Processing	1
Table of Configura	ations :: Data Proce	ssing			
	all all all all all a	$0 = (a_1, \dots, a_n) = 0$	$(-1)(\mathbf{x}_{1},-\mathbf{x}_{2},-\mathbf{x}_{2},-\mathbf{x}_{2},-\mathbf{x}_{2})$	$b_{ij}=b_{ij}=b_{ij}=b_{ij}=b_{ij}=b_{ij}=0$	
	cond#	1	cond#2	cond#3	
	53216	5322		53225	
	48462	4846	2	48462	
5 C[m]	20	8		8	
5 D[m]	19.680	7.680)	1.980	
λ[Å]	4.930	4.930)	4.930	
Beam Size	50x50l12x12	50x5	0 12x12	50x50l12x12	
Abs.Cal. [#-FS]	53229	5322	4	53224	
Abs.Cal. [#-EB]	53230	5322	5	53225	
Abs.Cal. [#-BC]	48462	4846	2	48462	
D-[FSIEB][m]	1.980	1.980	0	1.980	
μ-[FS]	5.9064E-02	5.90	64E-02	5.9064E-02	
Tr-[FSIAtt]	0.4189	0.418	39	0.4189	
Factor	5.3390E+04	1.76	54E+03	1.1734E+02	
/#-"Center"	53218	5322	2	53227	
X-center	73.514±0.143	73.13	38±0.191	72.691±0.259	
Y-center	84.793±0.066	85.5	97±0.086	83.711±0.080	
Mask. Matrix	mask	🕒 🕅 mas	k 🙆	mask	0
Sens. Mauna	St IS	Sen:	s 🔯	sens	0
🛬 Tr [EC-to-EB]	1.000		1.000	1.000	
WIASK WAUNA [11]	mask	😒 mas	k 🕘	mask	0

Process ad	ctive Script	Table						
l [x,y]	I [Qy]		dl [x,y]	Q [x,y]	>>File	0>>	Project	
Ι [Q,φ]	I [Qx]	1 [Q]	σ [x,y]	dQ [x,y]				

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🐧 🐔 KWS1-2							
Options	Rawdata Tools	Mask	Sensitivity	Data Processing	N		
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\	cond#	1	cond#2	cond#3			
	53216	532		53225	_		
	48462	484	62	48462			
C[m]	20	8		8			
5 D[m]	19.680	7.68	80	1,530			
λ[Å]	4.930	4.93	10	.930			
Beam Size	50x50l12x12	50x	50 12x12	50x50l12x12			
Abs.Cal. [#-FS	53229	532	24	53224			
Abs.Cal. [#-EE		532	25	53225			
Abs.Cal. [#-BC		484	62	48462 1.980			
D-[FSIEB][m]	1.980	1.98	30				
μ-[FS]	5.9064E-02	5.90	64E J2	5.9064E-02 0.4189 1.1734E+02 53227 72.691±0.259 83.711±0.080 mask sens			
Tr-[FSIAtt]	0.4189	0.41					
Factor	5.3390E+04	1.7	54E+03				
/#-"Center"	53218	512	22				
X-center	73.514±0.143	73.1	38±0.191				
Y-center	84.793±0.066	85.5	97±0.086				
Mask. Matrix	mask	😑 ma	sk 💿				
Sens. Matrix	sens	S ser	IS 💿				
	53216	532	20	53225			
Tr [EC-to-EB]	1.000		1.000	1.000			
Mask Matrix [T	r] mask	🙆 ma	sk 💿	mask	0		
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Process active	Script-Table						
[x,y]	Qy] dl [›	(,y] Q [x,	y] >>File	O >>Project			
	Qx] Ι[Q] σ[x						
Options :: Data	Processing						
		DA	N				
			02				



Select configuration will be used for transmission calculations. At KWS-1 normally we use C8D8 configuration for transmission calculations





to calculate transmission of Empty Cell (to Empty beam)

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🔮 🔩 KWS1-2020					0
Options R	awdata Tools	Mask	Sensitivity	Data Processing	N
Table of Configurat	ions :: Data Proces	ssing			
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<u> </u>	cond#1	1	cond#2	cond#3	
/ #-EC [EB]	53216	532	T 200 100 100 100 100	53225	
	48462	484	62	48462	
C[m]	20	8		8	
5 D[m]	19.680	7.6	30	1.980	
Δ[Å]	4.930	4.9	30	4.930	
Seam Size	50x50l12x12	50x	50l12x12	50x50l12x12	
Abs.Cal. [#-FS]	53229	532	24	53224	
Abs.Cal. [#-EB]	53230	532	25	53225	
Abs.Cal. [#-BC]	48462	484	62	48462	
D-[FSIEB][m]	1.980	1.9	80	1.980	
🐴 μ-[FS]	5.9064E-02	5.90	064E-02	5.9064E-02	
Tr-[FSIAtt]	0.4189	0.4	189	0.4189	
S Factor	5.3390E+04	1.70	654E+03	1.1734E+02	
#-"Center"	53218	532	22	53227	
Conter X-center	73.514±0.143	73.	138±0.191	72.691±0.259	
N-center	84.793±0.066	85.	597±0.086	83.711±0.080	
Mask. Matrix	mask	🗿 ma	isk 🧧	mask	0
Sens. Matrix	sens	Ser Ser	ns [sens	2
🥜 #-EB	53210	532	20	53225	
Tr [EC-to-EB]	0000		1.0000	1.0000	
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Process a	ctive Script	Table						
l [x,y]	I [Qy]	I [Q]	dl [x,y]	Q [x,y]	>>File	0>>	Project	
Ι [Q,φ]	I [Qx]	T[Q]	σ [x,y]	dQ [x,y]				

! In this example EC=EB & Tr(EC-to-EB)=1 !

STEP 8: Creation of "Table of Samples"

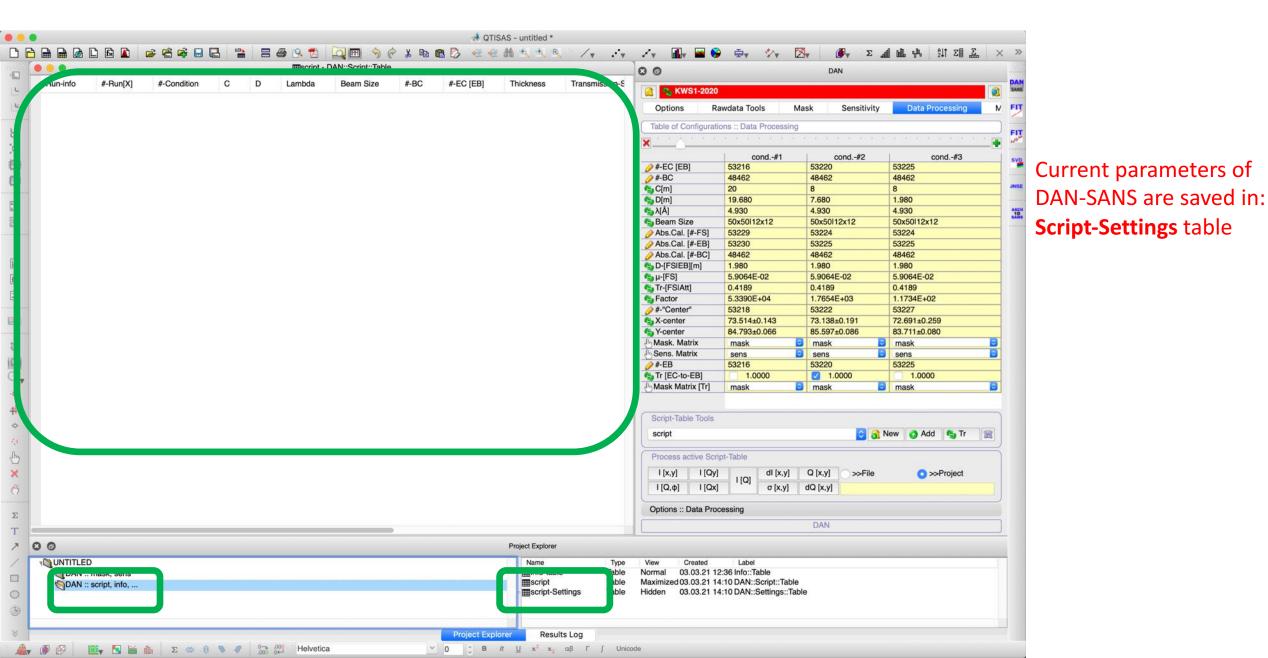


to create empty script-table and than give name to it.

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53229			53224	_	
53230			53225	-	
48462	484	62	48462		
1.980			1.980 5.9064E-02 0.4189 1.1734E+02 53227 72.691±0.259 83.711±0.080		
5.9064E-02	5.90	64E-02			
0.4189	0.41	89			
5.3390E+04	1.76	54E+03			
53218					
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Empty "script" table is generated in "DAN :: script, info, ..." folder





To add files for data reduction

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"Script" table contains now 3 samples measured in 3 configurations

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H-M	53223		2	8	7.680	4.930 5	0x50l12x12	48462	53220	0.100	0.9		48462	48462	48462
H-J	53226		3	8	1.980	4.930 5	0x50l12x12	48462	53225	0.100	0.9	🗞 C[m]	20	8	8
H-L	53227		3	8	1.980		0x50l12x12	48462	53225	0.100		ち D[m]	19.680	7.680	1.980
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H-M	53228		3	8	1.980	4.930 5	0x50l12x12	48462	53225	0.100	0.9	Beam Size	50x50l12x12 53229	50x50l12x12 53224	50x50l12x12 53224
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			_	_								Abs.Cal. [#-ED]	48462	48462	48462
												D-[FSIEB][m]	1.980	1.980	1.980
												🔩 μ-[FS]	5.9064E-02	5.9064E-02	5.9064E-02
												Tr-[FSIAtt]	0.4189	0.4189	0.4189
												S Factor	5.3390E+04	1.7654E+03	1.1734E+02
												#-"Center"	53218	53222	53227
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	Run-info	#-Run[X]	#-Condition	С	D	Lambda	Beam Size	#-BC	#-EC [EB]	Thickness	Transmission-Sample	Factor	X-center[Y]	Y-center[Y]	Mask	Sens	Status
1	H-J	53217	-	:	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask	sens	
2	H-L	53218	-	:	19.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask	sens	
3	H-M	53219	· •	;	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask	sens	
4	H-J	53221	2	2	8 7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.597	mask	sens	
5	H-L	53222	2	2	8 7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.597	mask	sens	
6	н-м	53223	2	2	8 7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.597	mask	sens	
7	H-J	53226	8	1	8 1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.711	mask	sens	
8	H-L	53227	3	5	8 1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.711	mask	sens	
9	н-м	53228	3	3	8 1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.711	mask	sens	

															15: mask		_	
	1		3		5		7		9: I _{EC}	ript - DAN::Scrip	11: Tr t::Table		13: X _{center}			_	1 7	1
Î	Run-info	#-Run[X]	#-Condition	с	D	Lambda	Beam Size	#-BC	#-EC [EB]	Thickness	Transmission-Sample	Factor	X-center[Y]	Y-center[Y]	Mask	Sens	s	Statu
	H-J	53217	1	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask	sens		
	H-L	53218	1	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask	sens		_
ŀ	H-M	53219	1	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask	sens		
ŀ	H-J	53221	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.59	mask	sens		
ŀ	Η-L	53222	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.59	mask	sens		
ŀ	H-M	53223	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.59	mask	sens		
ŀ	H-J	53226	3	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.71	mask	sens		
ŀ	Η-L	53227	3	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.71	mask	sens		
ŀ	H-M	53228	3	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.71	mask	sens		
į																	T	
		2: I _{sample}		4	J	6: λ		8: I _{BC}		10: d		12: AC _{factor}	J	14: Y _{center})	16:		
																sens		

1. Sample Name column: for smooth merging and correct transmission calculations the name of a sample should be the same in all instrument configurations. Example: "H-J" name is the same for #53217, #53221, #53226 runs... Sample name could be edited in this column

- 2. Run Number column: "I_{sample}"
- **3. Condition Number**, it corresponds to column number in the table of configurations in DAN-SANS
- 4. Collimation Distance column
- 5. Sample-To-detector Distance column: "D"
- **6. Wave Length** column: " λ "
- 7. Column Collimation and Sample Apertures "Beam Size"
- 8. Dark Current column with run numbers corresponding to the blocked beam measurements (Boron Carbonate): "IBC"

	-					_										15: mask		_	
	1		3		-{!	5		7		9: I _{EC}	cript - DAN::Scrip	11: Tr :::Table	f	13: X _{center}				1 7	1
F	Run-info	#-Run[X]	#-Condition	с	C	D	Lambda	Beam Size	#-BC	#-EC [EB]	Thickness	Transmission-Sample	Factor	X-center[Y]	Y-center[Y]	Mask	Sens	٤	Statu
н	-J	53217	1	3	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask	sens	Т	
н	-L	53218	1		20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask	sens		
н	-M	53219	1		20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask	sens		
н	-J	53221	2		8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.597	mask	sens		
н	-L	53222	2		8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.597	mask	sens		
н	-M	53223	2		8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.597	mask	sens		
н	-J	53226	3		8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.711	mask	sens		
н	-L	53227	3		8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.711	mask	sens		
н	-M	53228	3		8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.711	mask	sens		
					L													IJ	
		2: I _{sample}		4	J		6: λ		8: I _{BC}		10: d		12: AC _{factor}	J	14: Y _{center}		16:		
																	sens		

- 9. Empty Cell column: run numbers will be subtracted as EC (EB) from the sample: "I_{EC}"
- 10. Sample Thickness column: "d"
- 11. Sample Transmission column: "Tr"
- 12. Absolute Calibration Factor column "AC_{factor}"
- **13. X-center** column "X_{center}"
- 14. Y-center column "Y_{center}"
- 15. Mask Matrix column: "mask"
- 16. Sensitivity Matrix column: "sens"
- 15. After-Processing-Status column

"Script" table structure: Matrix calculation for every file:

					_	_										15: mask		
•	• •				5	r				9: I _{EC} ∰s	ript - DAN::Scrip	11: Tr t::Table						
	Run-info	#-Run[X]	#-Condition	С	D	Lai	imbda	Beam Size	#-BC	#-EC [EB]	Thickness	Transmission-Sample	Factor	X-center[Y]	Y-center[Y]	Mask	Sens	Status
1	H-J	53217	(1		20 1	9.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask	sens	1
2	H-L	53218	1		20 1	9.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask	sens	
3	н-м	53219	1		20 1	9.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask	sens	1
4	H-J	53221	2	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.597	mask	sens	
5	H-L	53222	2	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.597	mask	sens	
6	н-м	53223	2	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.597	mask	sens	
7	H-J	53226	3		8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.711	mask	sens	
8	H-L	53227	3	,	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.711	mask	sens	
9	H-M	53228	3		8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.711	mask	sens	1
		2: I _{sample}	J			6:	: λ		8: I _{BC}		10: d		12: AC _{factor}	J			16:	
																	sens	

$$\frac{d\Sigma}{d\Omega}[i,j] = mask[i,j] \cdot sens[i,j] \cdot \frac{AC_{factor}}{d \cdot Tr} \cdot \left(I_{sample} - I_{BC} - Tr \cdot (I_{EC} - I_{BC}) \right)$$

I: means normalized intensity

+ Dead-Time correction

+ Wide Angle corrections

In "processing" only parameters in the Script-Table is used – **NOT FROM HEADERS**

"Script" table structure: Wave Vector Q calculation for every file, every pixel:

					5: D								13: X _{center}		15: mask		
									Es	cript - DAN::Script	t::Table		Lot Acenter				
	Run-info	#-Run[X]	#-Condition	С	D	Lambda	Beam Size	#-BC	#-EC [EB]	Thickness	Transmission-Sample	Factor	X-center[Y]	Y-center[Y]	Mask	Sens	Status
ł	H-J	53217	1	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask	sens	
I	H-L	53218	1	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask	sens	
ł	H-M	53219	1	20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask	sens	
I	H-J	53221	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.597	mask	sens	
I	H-L	53222	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.597	mask	sens	
I	H-M	53223	2	8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.597	mask	sens	
I	H-J	53226	3	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.711	mask	sens	
1	H-L	53227	3	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.711	mask	sens	
1	H-M	53228	3	8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.711	mask	sens	1
						6: λ								14: Y _{center}			
[i,j] =	$\frac{4\pi}{\lambda} \cdot sin$	(tan ⁻	$1\left(\frac{p}{2}\right)$	ixel _s	ize ∙√	$\overline{(i - X_{cer})}$	_{nter})². 2D	$+(j-Y_c$	$(enter)^2$			Read :: Numbers- Dimension Pixel Width [cm]	per-Line 8 256 0.836			144 0.836 1.0

In "processing" only parameters in the Script-Table is used – **NOT FROM HEADERS**

"Processing" tools/options

Data "Processing" in 3 steps:

script-lab	e Tools							
script)					👌 New	🔇 Add	😭 Tr
rocess a	ctive Script	-Table				(
l [x,y]	l [Qy	1101	dl [x,y]	Q [x,y]	◯ >>File	0	>>Proje	ct
	I [Qx	1 [Q]	o [x,y]	dQ [x,y]	1			

1. Select(Create) script table

- 2. Select way how data will be saved after processing:
- as tables/matrixes in the current project (">>Project")
- or as ASCII files in "Output Folder" (">>File")

3. Push one of Processing Buttons:

- I[Q] for radial averaging;
- I[x,y] for matrix generation in Cartesian coordinates;
- $I[Q,\phi]$ for matrix generation in Polar coordinates;
- I[Qx] or I[Qz] for horizontal or vertical slices;
- dl[x,y], Q[x,y], dQ[x,y], σ[x,y] for error-bar matrix, wave-vector matrix, error-bar matrix of wave-vector, resolution matrix...

STEP 9: Radial Averaging

1. Selected: "script" table

2. Selected: as tables/matrixes in the current project (">>Project")

3. Pushed: I[Q] for radial averaging;

Many options of the data processing are "hidden" in "Options :: Data Processing" tab (not explained here):

Ι [Q,φ]	I [Qx]	σ [x,y]	dQ [x,y]	
Options :: I	Data Processing))
			DAN	

In "DAN:: I[Q]" folder 9 tables are created

										科 QTISAS - u	intitled *					
36			1 🖙 🗟 🛸		123-	8 8 8	🗖 🖽 🥱 🍘	÷ 🔏 🗈	8	🔁 🥶 🥶 🛍 🧐	5 3 B /	· .·.	/ v 🛛 🖬 🖬 🔗	⊕v */v 2	🖣 🐠 Σ 🚮	1 mL 44 211 21 🚨 🗙
	0 0	QI-SM	-53228-H-M - H-M		0	QI-SM	M-53227-H-L - H-L			QI-S	M-53226-H-J - H-J		00		DAN	
lini L		Q[X]	I[Y]	dl[yEr] 🔋		Q[X]	I[Y]	dl[yEr]		Q[X]	I[Y]	dl[yEr]	🚉 🌯 KWS1-2020			
14	1	2.69011888E-02	1.80945959E-01	1.8960	1	2.69011888E-02	2.09231049E-01	1.996	1	2.69011888E-02	1.52725100E-01	1.793	the second se			
	2	3.22790539E-02	2.08966398E-01	1.1525	2	3.22790539E-02	2.52871049E-01	1.238€	2	3.22790539E-02	1.71765037E-01	1.078	Options Raw	vdata Tools Ma	ask Sensitivity	Data Processing N
	3	3.76556258E-02	1.94928830E-01	7.996€	3	3.76556258E-02	2.32231089E-01	8.5222	3	3.76556258E-02	1.61714914E-01	7.513	Table of Configuration	ns :: Data Processing		
	4	4.30306897E-02	1.71220282E-01	6.7992	4	4.30306897E-02	2.00386073E-01	7.1821	4	4.30306897E-02	1.46074383E-01	6.461!	X		fa al al la arcal de car	
-	5	4.84040310E-02	1.44938536E-01	5.7507	5	4.84040310E-02	1.68571368E-01	6.0432	5	4.84040310E-02	1.27609521E-01	5.532		cond#1	cond#2	cond#3
	6	5.37754359E-02	1.32932236E-01	5.3285	6	5.37754359E-02	1.53057651E-01	5.5741	6	5.37754359E-02	1.19449790E-01	5.163	/ #-EC [EB]	53216 48462	53220 48462	53225 48462
	7	5.91446906E-02	1.22844285E-01	5.0324	7	5.91446906E-02	1.40251314E-01	5.244(7	5.91446906E-02	1.11765384E-01	4.897;	• C[m]	20	8	8
	8	6.45115821E-02	1.16527376E-01	4.5832	8	6.45115821E-02			8	6.45115821E-02			D[m]	19.680	7.680	1.980
				4.0001	ļ			4.707	4			4.410	 δ[Å] Beam Size 	4.930 50x50l12x12	4.930 50x50l12x12	4.930 50x50l12x12
	0.0	■ QI-SM	-53223-H-M - H-M		0		M-53222-H-L - H-L		0	■ ■ QI-S	M-53221-H-J - H-J		Abs.Cal. [#-FS]	53229	53224	53224
		Q[X]	I[Y]	dl[yEr]		Q[X]	I[Y]	dl[yEr]		Q[X]	I[Y]	dl[yEr]	Abs.Cal. [#-EB]	53230	53225	53225
	1	6.93654466E-03	1.89534916E+01	1.338	1	6.93654466E-03	2.32357107E+01	1.438	1	6.93654466E-03	1.12781022E+01	1.144	Abs.Cal. [#-BC] Abs.Cal. [#-BC]	48462 1.980	48462	48462 1.980
	2	8.32381290E-03	2.60815050E+01	4.307	2	8.32381290E-03	3.63600034E+01	5.106	2	8.32381290E-03	1.55792315E+01	3.359		5.9064E-02	5.9064E-02	5.9064E-02
	3	9.71105896E-03	1.13160212E+01	1.820	3	9.71105896E-03	1.53922111E+01	2.131	3	9.71105896E-03	6.95494398E+00	1.425	Tr-[FSIAtt]	0.4189	0.4189	0.4189
	4	1.10982791E-02	6.19565965E+00	1.162	4	1.10982791E-02	8.49043127E+00	1.361	4	1.10982791E-02	3.93192637E+00	9.271		5.3390E+04	1.7654E+03 53222	1.1734E+02 53227
	5	1.24854697E-02	3.91495450E+00	8.847	5	1.24854697E-02	5.20441050E+00	1.019	5	1.24854697E-02	2.50082394E+00	7.110	/ #-"Center"	53218 73.514±0.143	73.138±0.191	72.691±0.259
+++++	6	1.38726270E-02	2.56129489E+00	6.499	6	1.38726270E-02	3.47669182E+00	7.545	6	1.38726270E-02	1.66758748E+00	5.294	Y-center	84.793±0.066	85.597±0.086	83.711±0.080
ŀ	7	1.52597473E-02	1.89636097E+00	5.703	7	1.52597473E-02	2.51129834E+00	6.530	7	1.52597473E-02	1.23027822E+00	4.652	B Mask. Matrix	mask	mask 😒	mask
ŀ	8		1.42844211E+00		8	1.66468270E-02			8	1.66468270E-02			Sens. Matrix	sens 3 53216	sens 33220	sens 3
, -				4.010				0.244	1			1.000	Tr [EC-to-EB]	1.0000	1.0000	1.0000
	0.0	■ ■QI-SM	-53219-H-M - H-M		0		M-53218-H-L - H-L		0	■ ■ QI-S	M-53217-H-J - H-J		Ask Matrix [Tr]	mask	mask 😒	mask
		Q[X]	I[Y]	dl[yEr]		Q[X]	I[Y]	dl[yEr]		Q[X]	I[Y]	dl[yEr]				
	1	2.70696975E-03	1.21514471E+03	6.645	1	2.70696975E-03	1.73809969E+03	8.054	1	2.70696975E-03	5.95856827E+02	4.594	Script-Table Tools			
1	2	3.24836128E-03	4.27529959E+02	9.480	2	3.24836128E-03	5.66137244E+02	1.098	2	3.24836128E-03	2.24343128E+02	6.854	script		😂 🙆 N	lew 🧿 Add 🏻 🔩 Tr 🛛 😭
1	3	3.78975149E-03	3.13718482E+02	5.45C	3	3.78975149E-03	4.02601535E+02	6.209	3	3.78975149E-03	1.65516589E+02	3.94				
1	4	4.33114016E-03	1.68313087E+02	3.297	4	4.33114016E-03	2.17951792E+02	3.764	4	4.33114016E-03	9.43380631E+01	2.46!	Process active Script			
	5	4.87252708E-03	9.96344028E+01	2.32€	5	4.87252708E-03	1.30353729E+02	2.665	5	4.87252708E-03	5.74591868E+01	1.76	I [x,y] I [Qy]	I [Q] dI [x,y]	Q [x,y] >>File	 >>Project
	6	5.41391202E-03	6.56511678E+01	1.841	6	5.41391202E-03	8.66041556E+01	2.118	6	5.11391202E-03	3.86834393E+01	1.41!	Ι [Q,φ] Ι [Qx]	σ[x,y]	dQ [x,y]	
	7	5.95529476E-03	4.63573255E+01	1.493	7	5.95529476E-03	6.19195357E+01	1.727	7	5.95529476E-03	2.76490833E+01	1.15(Options :: Data Proce	essing		
lt	8	6 49667508F-03	3 25053660F±01	1 160	R	6 40667508E-03	4 37631066F±01	1 3.4F	R	6 40667508F-03	1 96777038F+01	0.04-			DAN	1
				-11				-				-11.				
	00									Proje	ect Explorer					
	4										QI-SM-53217-H-J	Table	e Normal 03.03.21 1	Label		
1		DAN :: I [Q]	ins								QI-SM-53217-H-5					
											QI-SM-53219-H-N					
9											QI-SM-53221-H-J QI-SM-53222-H-L					
	_								_			•				
			14							Project Explorer	Results Log					

Default Table's name Format

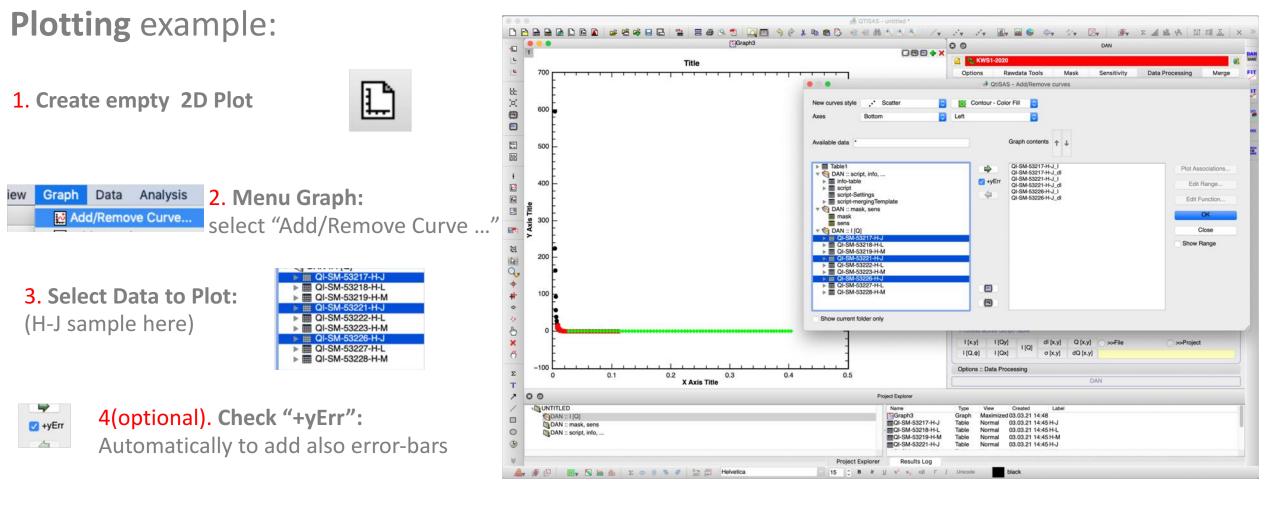
Project Explorer

Name	Туре	View	Created	Label
QI-SM-53217-H-J	Table	Normal	03.03.21 14	:45 H-J
QI-SM-53218-H-L	Table	Normal	03.03.21 14	:45 H-L
QI-SM-53219-H-M	Table	Normal	03.03.21 14	:45 H-M
QI-SM-53221-H-J	Table	Normal	03.03.21 14	:45 H-J
QI-SM-53222-H-L	Table	Normal	03.03.21 14	:45 H-L
QI-SM-53223-H-M	Table	Normal	03.03.21 14	45 H-M
QI-SM-53226-H-J	Table	Normal	03.03.21 14	:45 H-J
QI-SM-53227-H-L	Table	Normal	03.03.21 14	:45 H-L
QI-SM-53228-H-M	Table	Normal	03.03.21 14	:45 H-M

QI-SM-#####-SampleName

QI: radial av. Mode SM: "Standard" Mode #####: run number SampleName: Sample Name ⓒ

Example of Plotting of Radial Averaged Datasets



5. Push "Add" button:

109

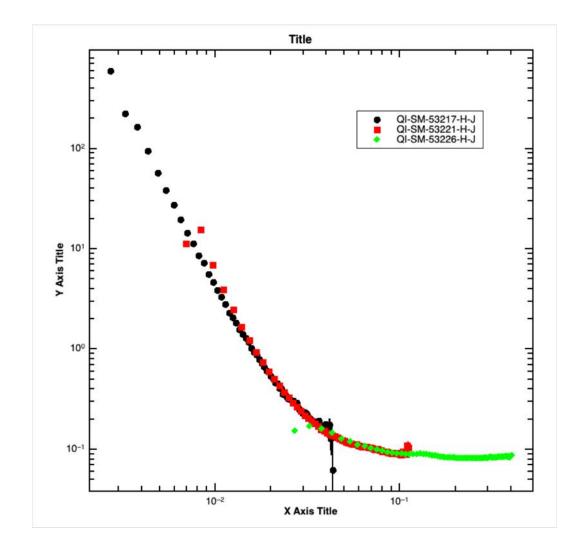
OK



6 (optional). Push "log" for double-logarithmic presentation

7. Push "OK" button to close "Add/Remove" interface

Plotting example: result



STEP 10: Data Merging

Merging Step #1: go to "Merge" tab (DAN-SANS) and activate "script-mergingTemplate"

			script-mergingTemplate - DAN	lerging::Template		00	DAN
1[X]	2[Y]	3[Y]	4[Y]			🙆 🍕 KWS1-2020	
H-J	QI-SM-53217-H-J	QI-SM-53221-H-J	QI-SM-53226-H-J			Chevron A Second S	Aask Sensitivity Data Prodessing Mer
H-L	QI-SM-53218-H-L	QI-SM-53222-H-L	QI-SM-53227-H-L				Mask Sensitivity Data Flot ssing Me
H-M	QI-SM-53219-H-M	QI-SM-53223-H-M	QI-SM-53228-H-M			Merging Options ::	Smart merging ::
						0 Sumber of tables for merging	g 1 C Reference column
						0 0 Number of table-sets for merg	ging Const
						30% Overlap control	0 (plus) left-side points
						Filter (Wild Card)	o C (plus) right-side points scale error-bars too
						Read from active Table New Table Name	♦ Save as a new Table
						New Table Name	
						After Merging: remove first: 0 points	C remove last: 0 points
						After Merging: remove first: 0 points Merge [project]	C remove last: 0 points → Merge [ascii]
						2	
Ø					Project Explorer	2	♦ Merge [ascii]

Merging Step #2: push button "Read active Table" to transfer data to Merge-interface

			mscript-merging lemplat	- DAN::Merging::T	emplate		00		DAN	
1[X]	2[Y]	3[Y]	4[Y]				KWS1-2020			
I-J	QI-SM-53217-H-J	QI-SM-53221-H-J	QI-SM-53226-H-J					ala Maak	Capalitivity	Data Processing Me
I-L	QI-SM-53218-H-L	QI-SM-53222-H-L	QI-SM-53227-H-L				Options Rawdata Too	ols Mask	Sensitivity	Data Processing Me
I-M	QI-SM-53219-H-M	QI-SM-53223-H-M	QI-SM-53228-H-M				Merging Options ::		Smart mergin	ng ::
							3 CNumber of tables	for merging	1	C Reference column
							3 C Number of table-	sets for merging	Const	o normalization
							30% Overlap control	0	0	0 (plus) left-side points
							Filter (Wild Card)		0	0 (plus) right-side points
						_			scale error-bar	rs too
							+ Read from active Table		♦ Save as a new	
							1 H-J QI-SM-5	_	2 Q-Range-3	
							2 H-L QI-SM-S			
							3 H-M QI-SM-5			
							After Merging: remove first: 0 p	points	C remove la	
							After Merging: remove first: 0 p Merge [project]	points	C remove la ♦ Merge [ascii]	
						Project Explorer			♦ Merge [ascii]	
						Name	Merge [project] Type View Created	Label	♦ Merge [ascii]	
	AN :: I [Q]						Merge [project] Type View Created Table Normal 03.03.21 1	C	♦ Merge [ascii]	
						Name info-table	→ Merge [project] Type View Created Table Normal O3.03.21 1 Table Normal O3.03.21 1 Table Normal O3.03.21 1 Table Normal O3.03.21 1 Table Normal O3.03.21 1	Label 2:36 Info::Table 4:10 DAN::Script::Tab	Array (ascii)	

Merging Step #3: push button "Merge [Project]" or "Merge[ascii]"

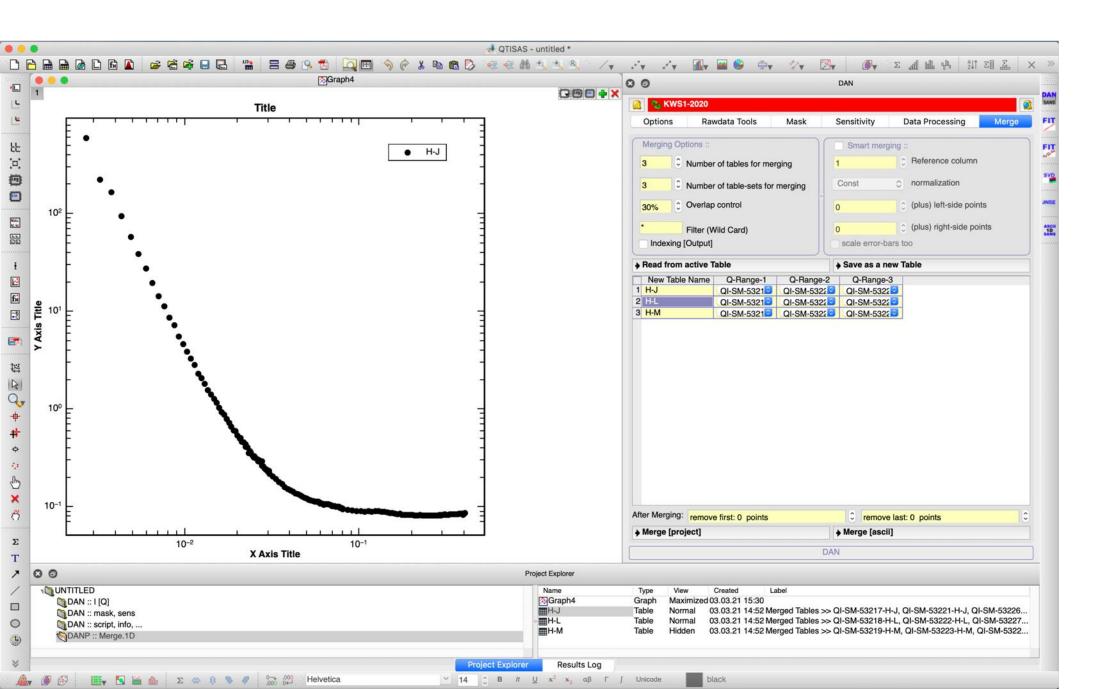
						A QTISAS - untitled *					
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•				mscript-mergingTemplate -	DAN::Merging::Template		00		DAN		
-	1[X]	2[Y]	3[Y]	4[Y]			🚉 🌯 KWS1-2020				
4	1 H-J	QI-SM-53217-H-J	QI-SM-53221-H-J	QI-SM-53226-H-J			a second s	data Tools Mask	Sensitivity	Data Processing Me	erge F
	2 H-L	QI-SM-53218-H-L	QI-SM-53222-H-L	QI-SM-53227-H-L			Current	7	· - · · ·	(v	
比	3 H-M	QI-SM-53219-H-M	QI-SM-53223-H-M	QI-SM-53228-H-M			Merging Options ::		Smart mergir		F
							3 🗘 Number	of tables for merging	1	Reference column	5
0							3 C Number	of table-sets for merging	Const	o normalization	
							30% Overlap	control	0	🗧 (plus) left-side points	a
										(plus) right-side points	
							Filter (W	ild Card)	0 scale error-bar		
							C		-	4352020	
ł							Read from active Ta		Save as a nev		
							New Table Name 1 H-J	Q-Range-1 Q-Range QI-SM-5321 QI-SM-532			
fi							2 H-L	QI-SM-5321 QI-SM-532	QI-SM-5322	3	
							3 H-M	QI-SM-5321 QI-SM-532	QI-SM-5322		
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-		LED N :: I [Q]				Name minfo-table	Table Normal 03	1.03.21 12:36 Info::Table			
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0	DAN	N :: script, info,				script-Settings		8.03.21 14:10 DAN::Settings::			
9											_
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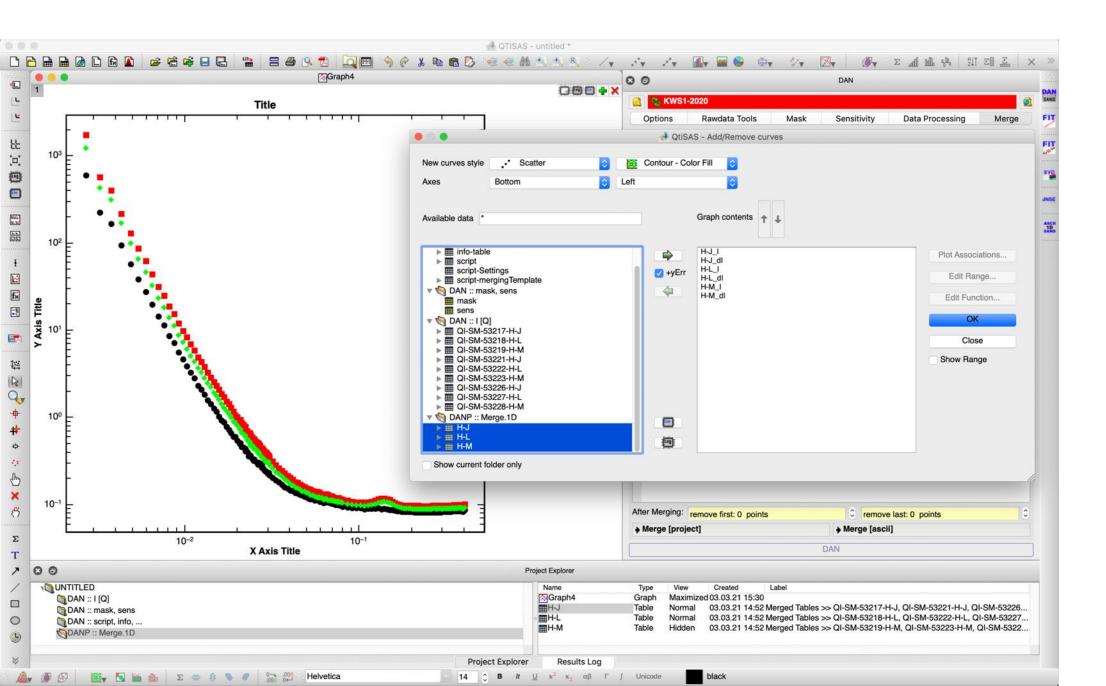
Merging Result: merged tables are located in "DANP:: Merge.1D"

_			📬 🔜 🗔 🏥 mH-J - Merged Ta		🗓 🥱 🥟 👗 🗈 🛍 🕏 M-53221-H-J, QI-SM-53226-H		, ∴, ∕, M , _00			DAN	
	Q[X]	[Y]	dl[yEr]	Sigma[xEr]			🚉 🍡 KWS1-2020				
1	2.706970E-03	5.958568E+02	4.594410E+00	1.453703E-03			Local Provide State				
2	3.248361E-03	2.243431E+02	6.854098E-01	1.455701E-03			Options Rav	wdata Tools	Mask	Sensitivity	Data Processing Me
3	3.789751E-03	1.655166E+02	3.948253E-01	1.458059E-03			Merging Options ::			Smart mergin	gat
4	4.331140E-03	9.433806E+01	2.465308E-01	1.460775E-03			3 C Number	r of tables for me	rging	1	Reference column
5	4.872527E-03	5.745919E+01	1.768180E-01	1.463847E-03						Const	o normalization
6	5.413912E-03	3.868344E+01	1.415649E-01	1.467273E-03				r of table-sets for	merging	Gunst	- Hormanzauori
7	5.955295E-03	2.764908E+01	1.156358E-01	1.471050E-03			30% 🗘 Overlap	o control		0	0 (plus) left-side points
8	6.496675E-03	1.967770E+01	9.047834E-02	1.475176E-03			• Filter (V	Vild Card)		0	(plus) right-side points
9	7.038053E-03	1.443091E+01	7.494643E-02	1.479647E-03			Indexing [Output]	a se		scale error-bars	
10	7.579428E-03	1.137449E+01	6.441464E-02	1.484462E-03							- Table
11	8.120799E-03	8.607297E+00	5.452158E-02	1.489615E-03			Read from active T New Table Name	Q-Range-1	Q-Range-2	Save as a new Q-Range-3	
12	8.662168E-03	7.218709E+00	4.936526E-02	1.495104E-03			1 H-J	QI-SM-5321	QI-SM-5322		
13	9.203533E-03	5.556774E+00	4.068226E-02	1.500925E-03			2 H-L	QI-SM-5321		the same state of the local data is a state of the same state of	and a second
14	9.744894E-03	4.636202E+00	3.722305E-02	1.507074E-03			3 H-M	QI-SM-5321	QI-SM-5322	QI-SM-5322	
15	1.028625E-02	3.854444E+00	3.387287E-02	1.513547E-03							
16	1.082760E-02	3.300513E+00	3.027671E-02	1.520341E-03							
17	1.136895E-02	2.826238E+00	2.760764E-02	1.527450E-03							
18	1.191030E-02	2.309720E+00	2.369389E-02	1.534870E-03							
19	1.245164E-02	2.081745E+00	2.320732E-02	1.542597E-03							
20	1.299297E-02	1.832820E+00	2.115213E-02	1.550627E-03							
21	1.353430E-02	1.571639E+00	1.893052E-02	1.558954E-03							
22	1.407562E-02	1.419160E+00	1.768802E-02	1.567574E-03							
23	1.461694E-02	1.281948E+00	1.635956E-02	1.576481E-03							
24	1.515825E-02	1.174161E+00	1.577773E-02	1.585672E-03							
25	1.569956E-02	1.029536E+00	1.428914E-02	1.595141E-03							
26	1.624086E-02	9.286797E-01	1.322119E-02	1.604883E-03			After Merging: remov	- first O let		A	
27	1.678215E-02	8.765793E-01	1.301842E-02	1.614894E-03			Merge [project]	e iirst: u points		Merge [ascii]	ast. U points
28	1.732344E-02	7.889049E-01		1.625168E-03			• merge [project]				
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	UNTITLED					Name		orouted in	abel		
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3 6	DAN :: I [Q]										
3 6		nfo,				⊞H-M					M, QI-SM-53223-H-M, QI-SM-

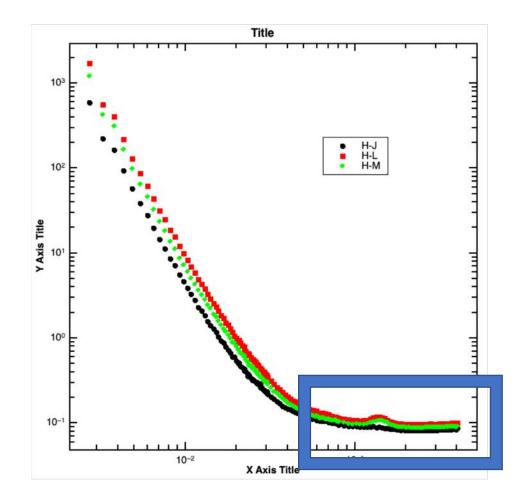
Plotting Example of Merged Data

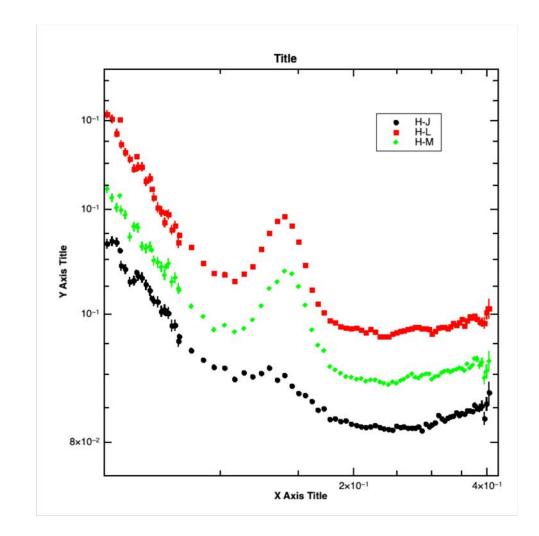
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	2.706970E-03	5.958568	∦Cut	Scatter			Options Rawdata Tools Masi	k Sensitivity Data Processing Mer
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	4.872527E-03		Bet Column Values TQ	Special Bar/Column	•		3 C Number of table-sets for merging	Const O normalization
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_	5.955295E-03	10.17.000.000.000	Normalize				30% Overlap control	0 (plus) left-side points
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D	7.579428E-03	1.137449	🌄 Clear	grajectory			+ Read from active Table	Save as a new Table
	8.120799E-03		Delete	Statistical Graphs	•			ange-2 Q-Range-3
2	8.662168E-03		Hide Selected Show All Columns				1 H-J QI-SM-5321 QI-SM	A-5322 QI-SM-5322
3	9.203533E-03							A-5322 QI-SM-5322
4	9.744894E-03		ilinsert +¶dd Column ℃C					
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9	1.245164E-02	The Part of the Pa	Column Options \\\C #O					
9 0	1.299297E-02	Million and Adverse						
1	1.353430E-02							
2	1.407562E-02							
3	1.461694E-02							
	1.515825E-02							
5	1.569956E-02							
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T	1.678215E-02	8.765793	E-01 1.301842E-02 1.614894E-03				After Merging: remove first: 0 points	c remove last: 0 points
3	1.732344E-02	7.889049	E-01 1.217046E-02 1.625168E-03				Merge [project]	→ Merge [ascii]
1	· · ·=							DAN
0)					Project Explorer		
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	DAN :: I [Q] DAN :: mask,	sens				⊞H-J ⊞H-L		bles >> QI-SM-53217-H-J, QI-SM-53221-H-J, QI-SM-532 bles >> QI-SM-53218-H-L, QI-SM-53222-H-L, QI-SM-532
	DAN :: mask,					H-M		bles >> QI-SM-53219-H-M, QI-SM-53223-H-M, QI-SM-53
	DANP :: Merg	e.1D						





Plotting example: result





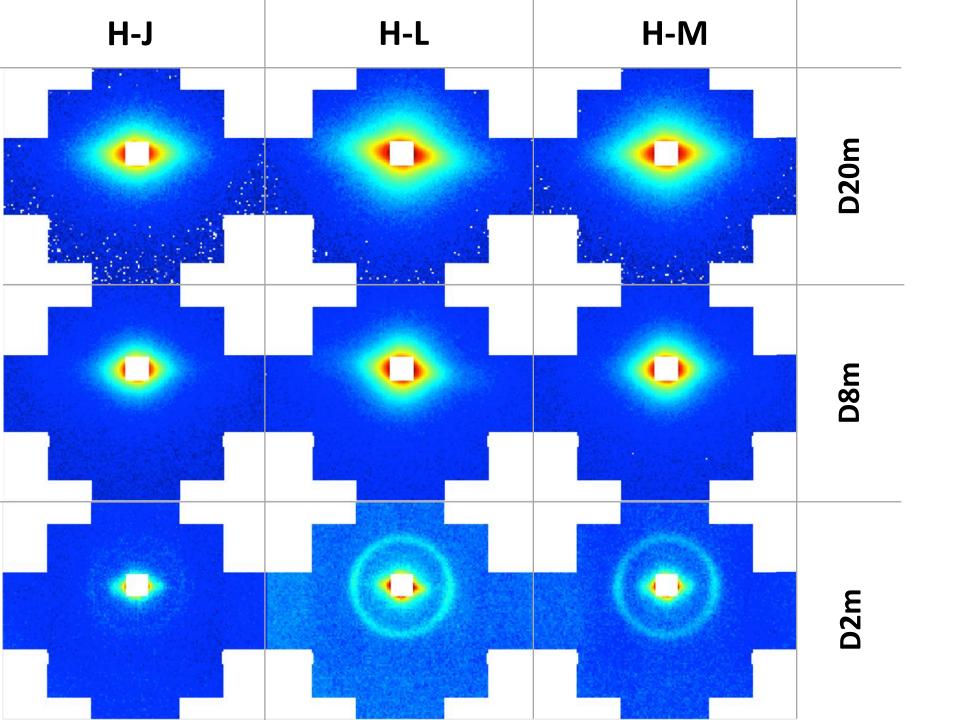
STEP 11: Reduced Detector Images

1. Selected: "script" table

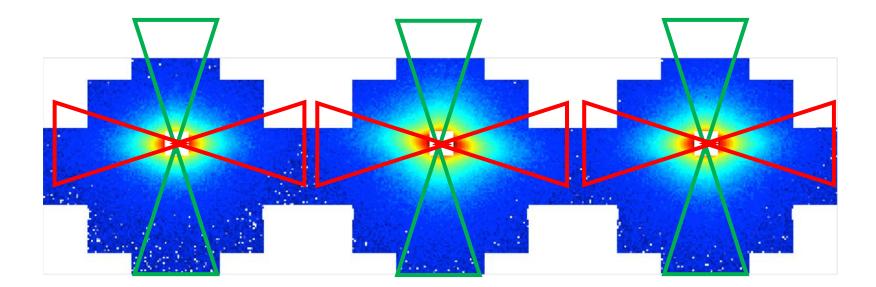
2. Selected: as tables/matrixes in the current project (">>Project")

3. Pushed: I[**x**,**y**] for radial averaging;

						📌 QTISAS - /Us	ers/pip	pich/[Documents/sans/qtisas	-documentation/dan-	sans/kw	s/kws-1/dan-example-kws1.qti *
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		1	2	8	1	2	8		1	2		DA 🔂 🖏 KWS1-2020
-	1	0.0000000E+00	0.0000000E+00	0.0	1 0.0000000E+00	0.0000000E+00	0.0	1	0.0000000E+00	0.0000000E+00	0.0	0.C Options Rawdata Tools Mask Sensitivity Data Processing Merge
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-	3	0.00000000E+00	0.0000000E+00	0.0	3 0.0000000E+00	0.0000000E+00	0.0	3	0.0000000E+00	0.0000000E+00	0.0	0.C Table of Configurations :: Data Processing
	4	0.0000000E+00	0.0000000E+00	0.0	4 0.0000000E+00	0.0000000E+00	0.0	4	0.0000000E+00	0.0000000E+00	0.0	0.C cond.#1 cond.#2 cond.#3
łŁ		0.00000000E+00	0.00000000E+00	0.0	5 0.0000000E+00	0.00000000E+00	0.0	5	0.00000000E+00	0.00000000E+00	0.0	
[o]								<u> </u>				6 40402 40002 40002 40002 40002 40002 40000 40000 40000 40000 40000 40000 4000000
Janing.		0.0000000E+00	0.0000000E+00	0.0	6 0.0000000E+00	0.0000000E+00	0.0	6	0.0000000E+00	0.0000000E+00	0.0	4 D[m] 19.680 7.680 1.980
	7	0.0000000E+00	0.0000000E+00	0.0	7 0.0000000E+00	0.0000000E+00	0.0	7	0.0000000E+00	0.0000000E+00	0.0	
0	8	0.0000000E+00	0.0000000E+00	0.0	8 0.0000000E+00	0.0000000E+00	0.C	8	0.0000000E+00	0.0000000E+00	0.0	0.C 50x5012x12 50x5012x12 50x5012x12 50x5012x12 50x5012x12 50x5012x12 50x5012x12 50x5012x12 30x5012x12 30x5012
	9	0.0000000E+00	0.0000000E+00	0.0	9 0.0000000E+00	0.0000000E+00	0.0	9	0.0000000E+00	0.0000000E+00	0.0	0.C 2/2 Abs.Cal. (#-EB) 53230 53225 53225
No.	0 0	C MILSM	53221-H-J - H-J	4		-53222-H-L - H-L	1		● ● ■I-SM-	53223-H-M - H-M		
	0.0	1	2	1.10	1	2	0		1	2	11 11	5.9064E-02 5.9064E-02 5.9064E-02
		0.00000000E+00	0.0000000E+00	0.0	1 0.0000000E+00	0.0000000E+00	0.0	1	0.0000000E+00	0.0000000E+00	0.0	C Same 0.4189 0.4189 0.4189 0.C Same 5.3390E+04 1.7654E+03 1.1734E+02
				0.0				-				Ø#-"Center" 53218 53222 53227
Ŧ	2	0.0000000E+00	0.0000000E+00	0.0	2 0.0000000E+00	0.0000000E+00	0.0	2	0.0000000E+00	0.0000000E+00	0.0	0.0 % X-center 73.514±0.143 73.138±0.191 72.691±0.259 % Y-center 84.793±0.066 85.597±0.086 83.711±0.080
	3	0.0000000E+00	0.0000000E+00	0.0	3 0.0000000E+00	0.0000000E+00	0.0	3	0.0000000E+00	0.0000000E+00	0.0	0.C Mask. Matrix mask i mask i mask
	4	0.0000000E+00	0.0000000E+00	0.0	4 0.0000000E+00	0.0000000E+00	0.0	4	0.0000000E+00	0.0000000E+00	0.0	0.C Altrix sens sens sens sens sens sens sens sen
fi		0 0000000E+00	0 0000000E+00 53227-H-L - H-L	00	5 0.0000000E+00		0.0	5	0.0000000E+00	0.0000000E+00	0.0	
1	00	1	2	1	1	53228-H-M - H-M 2	0	•	<mark>●</mark> ● ■I-SM	-53226-H-J - H-J		
		0.0000000E+00	0.0000000E+00	0.0	1 0.0000000E+00	0.0000000E+00	0.0		1	2	_	
E *				10.00				1	0.0000000E+00	0.0000000E+00	0.0	<u></u>
	2	0.0000000E+00	0.0000000E+00	0.0	2 0.0000000E+00	0.0000000E+00	0.0	2	0.0000000E+00	0.0000000E+00	0.0	0.C Script-Table Tools
15	3	0.0000000E+00	0.0000000E+00	0.0	3 0.0000000E+00	0.0000000E+00	0.0	3	0.0000000E+00	0.0000000E+00	0.0	
4-0	4	0.0000000E+00	0.0000000E+00	0.0	4 0.0000000E+00	0.0000000E+00	0.0	4	0.0000000E+00	0.0000000E+00	0.0	
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Q.,	6	0.0000000E+00	0.0000000E+00	0.0	6 0.0000000E+00	0.0000000E+00	0.C		0.00000000E+00	0.00000000E+00	0.0	1 [x,y] 1 [Q] 1 [Q] 0 [x,y] >>File >>File >>Project
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- ф -		0.00000000E+00	0.00000000E+00	0.0	8 0.0000000E+00	0.00000000E+00	0.0	7	0.0000000E+00	0.0000000E+00	0.0	Options :: Data Processing
#				-		-		8	0.0000000E+00	0.0000000E+00	0.0	0.C DAN
	9	0.0000000E+00	0.0000000E+00	0.0	9 0.0000000E+00	0.0000000E+00	0.C	9	0.0000000E+00	0.0000000E+00	0.0	0.C FITTABLE(s) DAN
¢	0 0)								Project Explorer		
4	~			_						Name		Type View reated Label
0		DAN :: I [Q]										Matrix Normal 0 03.21 18:29 H-J Matrix Normal 0 03.21 18:29 H-L
Ð		DAN :: I [x,y]								I-SM-53219-I	H-M	Matrix Normal 0 03.21 18:29 H-M
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Problem: scattering is not ISOTROPIC



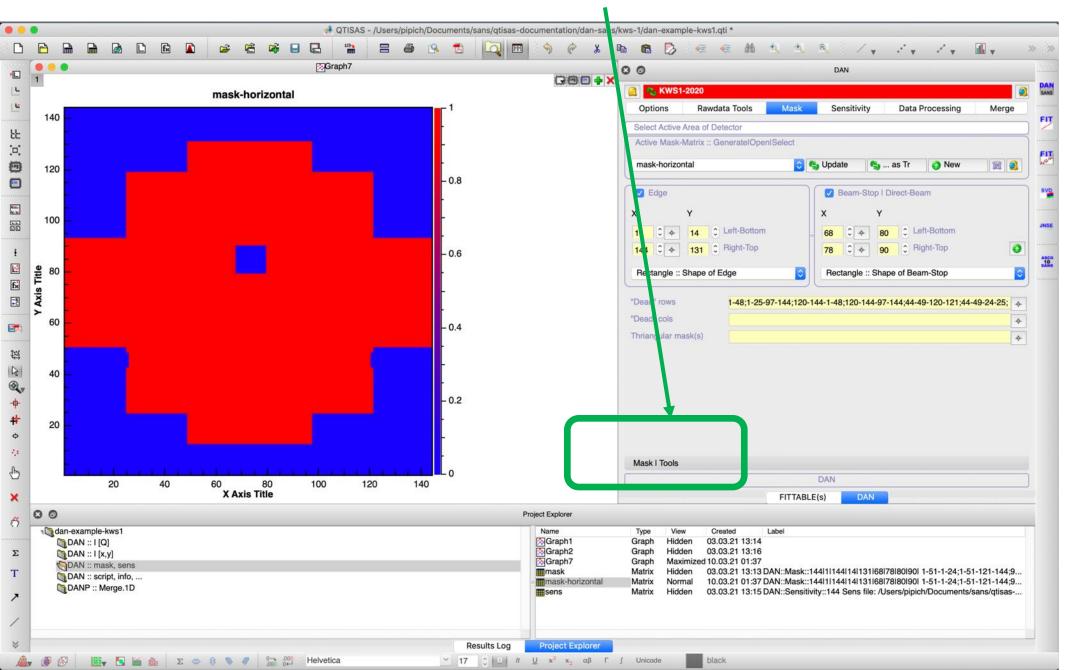
! Vertical & Horizontal Masks!

mask-horizontal

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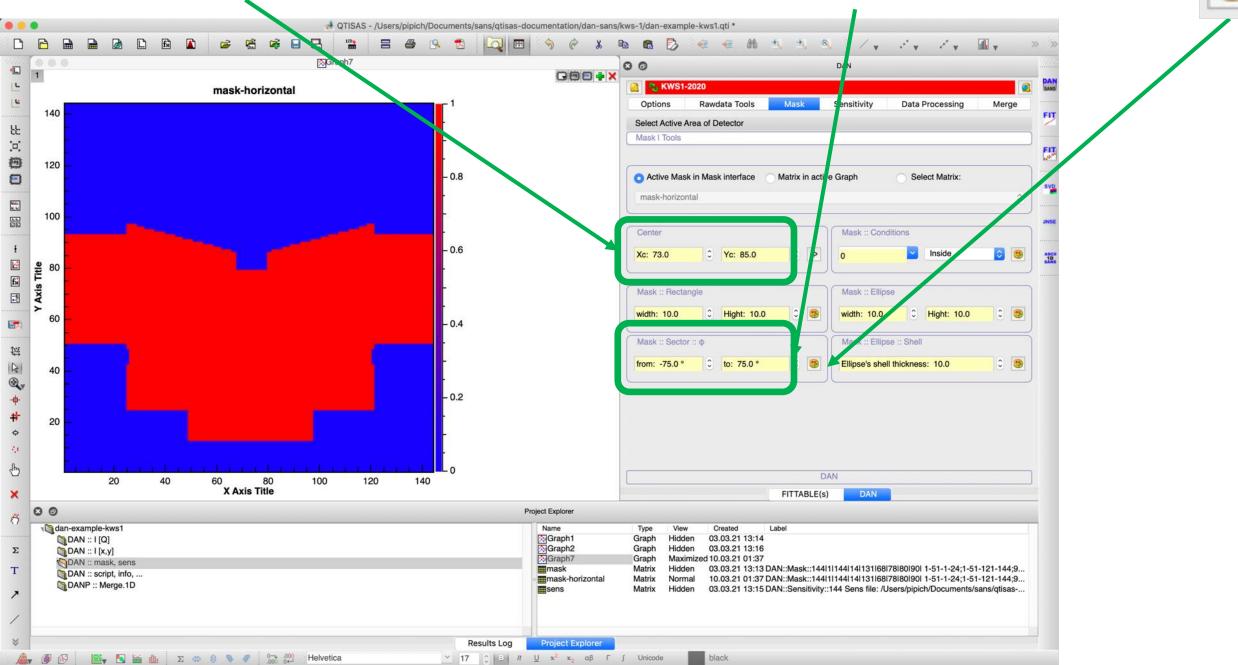
go to Mask | Tools



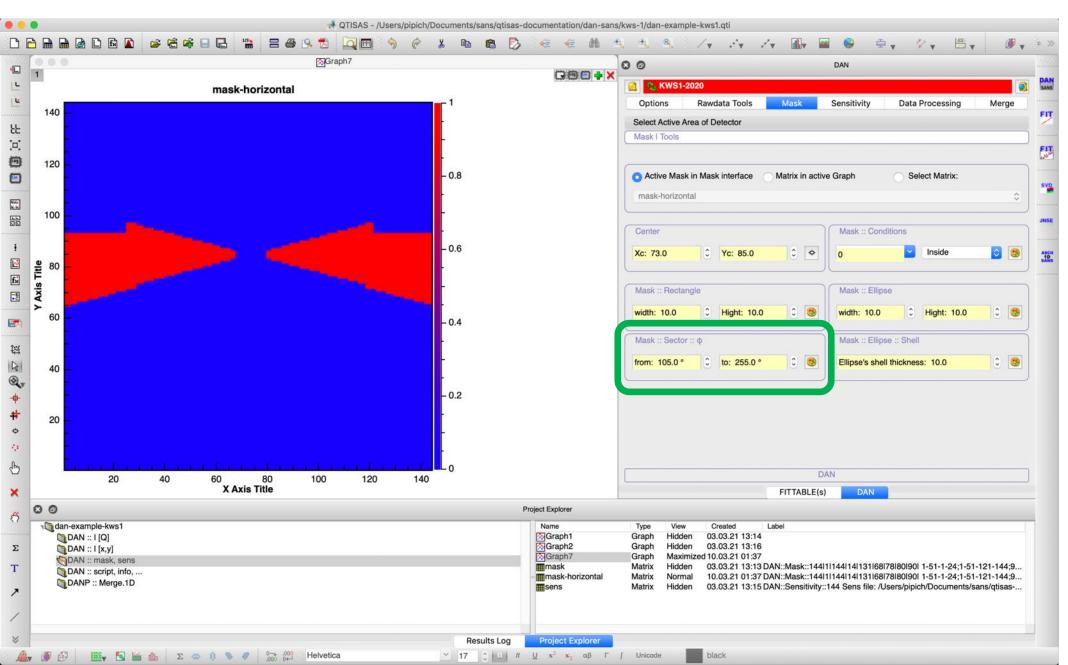
1. Set **Center** of the beam-stop

2. Set **Sector** range. 3. Push

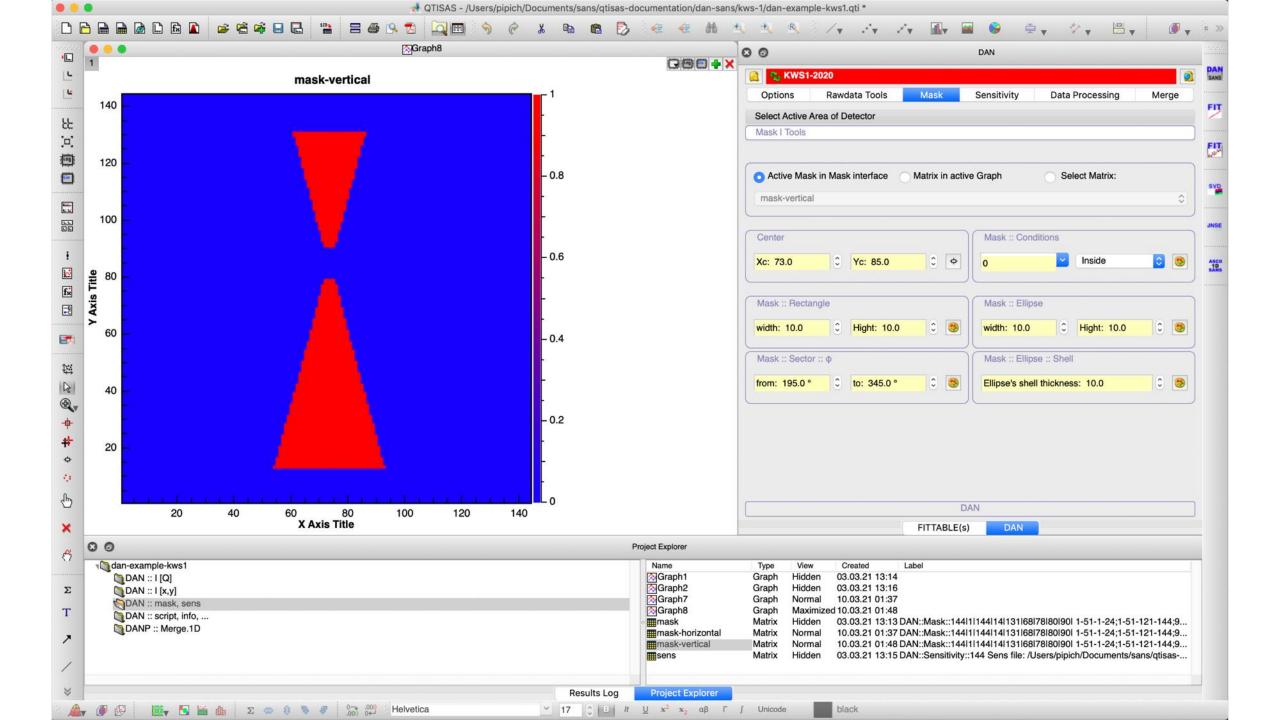




Mask also lower sector



mask-vertical



Script-Table Modification: adding the same datasets with horizontal and vertical masks

Mask. Matrix

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Sample Names: added suffix "-horizontal"

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Sample Names: added suffix "-vertical"

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0									Ν[Å] 4.930 4.930 4.930 Beam Size 50x50l12x12 50x50l12x12 50x50l12x12
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2 H-L-horizontal	53218		1 20	-		48462	53216		Abs.Cal. [#-EB] 53230 53225 53225
3 H-M-horizontal	53219		1 20	0.0000000		48462	53216		Abs.Cal. [#-BC] 48462 48462 48462 % D-[FSIEB][m] 1.980 1.980 1.980
4 H-J-horizontal	53221			3 7.680		48462	53220		S-9064E-02 5.9064E-02 5.9064E-02
5 H-L-horizontal	53222	-	2 1	3 7.680		48462	53220		Same 0.4189 0.4189 Same 5.3390E+04 1.7654E+03 1.1734E+02
6 H-M-horizontal	53223		2	3 7.680		48462	53220		Actor 53390E+04 1.754E+03 1.754E+02
7 H-J-horizontal	53226		3 1	3 1.980		48462	53225		Syx-center 73.514±0.143 73.138±0.191 72.691±0.259
B H-L-horizontal	53227		3 1	3 1.980	4.930 50x50l12x12	48462	53225		Mask. Matrix mask-vertical mask-vertical
H M horizontal	53228		3 1	3 1.980	4.930 50x50l12x12	48462	53225	5 0. 0	
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3 H-M-vertical	53219		1 2	19.680	4.930 50x50l12x12	48462	53216	6 0.100	script 🗘 🖓 Nc / 🔇 Add 🎭 🕅
4 H-J-vertical	53221		2 1	3 7.680	4.930 50x50l12x12	48462	53220	0.100	
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7 H-J-vertical	53226		3	1.980	4.930 50x50l12x12	48462	53225	5 0.100	I [Q,φ] I [Qx] ^Γ [Q] σ [x,y] dQ [x,y]
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New "script" table

									script - DAI	N::Script::Table						
Run	n-info	#-Run[X]	#-Condition	С	D	Lambda	Beam Size	#-BC	#-EC [EB]	Thickness	Transmission-Sample	Factor	X-center[Y]	Y-center[Y]	Mask	Sens
1 H-J		53217		1 20	19.68	4.930	50x50l12x12	48462	53216	0.1	0.9061 [±0.0012]	5.3390E+04	73.514	84.793	mask	sens
2 H-L		53218		1 20	19.68	4.930	50x50l12x12	48462	53216	0.1	0.8981 [±0.0012]	5.3390E+04	73.514	84.793	mask	sens
з Н-М		53219		1 20	19.68	4.930	50x50l12x12	48462	53216	0.1	0.9019 [±0.0012]	5.3390E+04	73.514	84.793	mask	sens
4 H-J		53221		2 8	7.68	4.930	50x50l12x12	48462	53220	0.1	0.9061 [±0.0012]	1.7654E+03	73.138	85.597	mask	sens
5 H-L		53222		2 8	7.68	4.930	50x50l12x12	48462	53220	0.1	0.8981 [±0.0012]	1.7654E+03	73.138	85.597	mask	sens
6 H-M		53223		2 8	7.68	4.930	50x50l12x12	48462	53220	0.1	0.9019 [±0.0012]	1.7654E+03	73.138	85.597	mask	sens
7 H-J		53226		3 8	1.98	4.930	50x50l12x12	48462	53225	0.1	0.9061 [±0.0012]	1.1734E+02	72.691	83.711	mask	sens
8 H-L	8	53227		3 8	1.98	4.930	50x50l12x12	48462	53225	0.1	0.8981 [±0.0012]	1.1734E+02	72.691	83.711	mask	sens
9 H-M	Ę.	53228		3 8	1.98	4.930	50x50l12x12	48462	53225	0.1	0.9019 [±0.0012]	1.1734E+02	72.691	83.711	mask	sens
10																
11 H-J-h	horizontal	53217		1 20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask-horizontal	sens
12 H-L-ł	horizontal	53218		1 20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask-horizontal	sens
13 H-M-	-horizontal	53219		1 20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask-horizontal	sens
14 H-J-ł	horizontal	53221		2 8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.597	mask-horizontal	sens
15 H-L-ł	horizontal	53222		2 8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.597	mask-horizontal	sens
16 H-M-	-horizontal	53223		2 8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.597	mask-horizontal	sens
17 H-J-h	horizontal	53226		3 8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.711	mask-horizontal	sens
18 H-L-ł	horizontal	53227		3 8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.711	mask-horizontal	sens
19 H-M-	-horizontal	53228		3 8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.711	mask-horizontal	sens
20																
21 H-J-v	vertical	53217		1 20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9061 [±0.0012]	53390	73.514	84.793	mask-vertical	sens
22 H-L-V	vertical	53218		1 20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.8981 [±0.0012]	53390	73.514	84.793	mask-vertical	sens
23 H-M-	-vertical	53219		1 20	19.680	4.930	50x50l12x12	48462	53216	0.100	0.9019 [±0.0012]	53390	73.514	84.793	mask-vertical	sens
24 H-J-v	vertical	53221		2 8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9061 [±0.0012]	1765.4	73.138	85.597	mask-vertical	sens
25 H-L-V	vertical	53222		2 8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.8981 [±0.0012]	1765.4	73.138	85.597	mask-vertical	sens
26 H-M-	-vertical	53223		2 8	7.680	4.930	50x50l12x12	48462	53220	0.100	0.9019 [±0.0012]	1765.4	73.138	85.597	mask-vertical	sens
27 H-J-v	vertical	53226		3 8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9061 [±0.0012]	117.34	72.691	83.711	mask-vertical	sens
28 H-L-V	vertical	53227		3 8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.8981 [±0.0012]	117.34	72.691	83.711	mask-vertical	sens
29 H-M-	-vertical	53228		3 8	1.980	4.930	50x50l12x12	48462	53225	0.100	0.9019 [±0.0012]	117.34	72.691	83.711	mask-vertical	sens

STEP 9-again: Radial Averaging

1. Selected: "script" table

2. Selected: as tables/matrixes in the current project (">>Project")

3. Pushed: I[Q] for radial averaging;

Every run has 3 tables

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		•			@QI-SM-53217			00		DAN	, _, _, _,	
	3	Q[X]	I[Y]	dl[yEr]	Sigma[xEr]			🔍 😋 KWS1-2020				
1	1	2.70696975E-03	5.95856827E+02	4.59440953E+00	1.45370264E-03							
-	2	3.24836128E-03	2.24343128E+02	6.85409803E-01	1.45570088E-03			Options R	awdata Tools Ma	ask Sensitivity	Data Processing N	Aerge
LL	3	3.78975149E-03	1.65516589E+02	3.94825283E-01	1.45805890E-03			Table of Configurat	ions :: Data Processing			;
11	4	4.33114016E-03	9.43380631E+01	2.46530826E-01	1.46077496E-03			X				<u> </u>
	5	4.87252708E-03	5.74591868E+01		1.46384705E-03				cond#1	cond#2	cond#3	
節	_			1.76817962E-01				🥜 #-EC [EB]	53216	53220	53225	
	6	5.41391202E-03	3.86834393E+01	1.41564923E-01	1.46727293E-03				48462	48462 8	48462 8	
	7	5.95529476E-03	2.76490833E+01	1.15635807E-01	1.47105013E-03			C[m]	19.680	7.680	1.980	
14.14 14.14	8	6.49667508E-03	1.96777038E+01	9.04783430E-02	1.47517594E-03			δ[Å]	4.930	4.930	4.930	
	9	7.03805276E-03	1.44309119E+01	7.49464298E-02	1.47964745E-03			🎭 Beam Size	50x50l12x12	50x50l12x12	50x50l12x12	
	10	7.57942759E-03	1.13744940E+01	6.44146418E-02	1.48446151E-03			Abs.Cal. [#-FS]	53229	53224	53224	
Ŧ	11	8.12079933E-03	8.60729653E+00	5.45215821E-02	1.48961479E-03			Abs.Cal. [#-EB] Abs.Cal. [#-BC]	53230 48462	53225 48462	53225	
12	12	8.66216779E-03	7.21870939E+00	4.93652557E-02				D-[FSIEB][m]	1.980	1.980	1.980	
fi	13	9.20353272E-03	5.55677417E+00	4.06822603E-02				🎭 μ-[FS]	5.9064E-02	5.9064E-02	5.9064E-02	
-8	10000							Tr-[FSIAtt]	0.4189	0.4189	0.4189	
	14	9.74489392E-03	4.63620229E+00	3.72230504E-02				Sactor	5.3390E+04	1.7654E+03	1.1734E+02	
	15	1.02862512E-02	3.85444418E+00	3.38728665E-02	1.51354734E-03			Script-Table Tools				
	16	1.08276042E-02	3.30051293E+00	3.02767067E-02	1.52034069E-03			script			这 👧 New 👩 Add 🐁 Tr	8
斑	17	1.13689529E-02	2.82623786E+00	2.76076372E-02	1.52744976E-03			Process active Scr	int-Table			$ \rightarrow $
15	18	1.19102970E-02	2.30971995E+00	2.36938852E-02	1.53487015E-03					01		
2	19	1.24516362E-02	2.08174501E+00	2.32073226E-02	1.54259736E-03			I [x,y] I [Qy]	1 Q	Q [x,y] >>File	>>Project	
÷	20	1.29929703E-02	1.83282018E+00	2.11521258E-02	1.55062679E-03			Ι [Q,φ] Ι [Qx]] σ [x,y]	dQ [x,y]		
Ψ #	21	1.35342992E-02	1.57163873E+00	1.89305162E-02	1.55895376E-03			Options :: Data Pro	cessing			
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		DAN :: script, inf					CI-SM-53219-H-M	Table Nor	rmal 03.03.21 14:45 H	I-M		
ñ		DANP :: Merge.					QI-SM-53219-H-M-h		rmal 10.03.21 02:02 F rmal 10.03.21 02:02 F			
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*							QI-SM-53222-H-L-hc	orizontal Table Nor	rmal 10.03.21 02:02 F rmal 10.03.21 02:02 F	I-L-horizontal		9
>							QI-SM-53223-H-M	Table Nor	rmal 03.03.21 14:45 H	I-M		
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Merging Data

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1[X]	2[Y]	3[Y]	4[Y]		00		DAN	
1 H-J	QI-SM-53217-H-J	QI-SM-53221-H-J	QI-SM-53226-H-J		🧕 🍋 KWS1-2020			
					Options Ray	wdata Tools Mask	Sensitivity Data Pro	cessing Merge
2 H-L	QI-SM-53218-H-L	QI-SM-53222-H-L	QI-SM-53227-H-L		C			
3 H-M	QI-SM-53219-H-M	QI-SM-53223-H-M	QI-SM-53228-H-M		Merging Options ::		Smart merging ::	
4 H-J-horizontal	QI-SM-53217-H-J-horizontal	QI-SM-53221-H-J-horizontal	QI-SM-53226-H-J-horizontal		3 C Numbe	r of tables for merging	1 C Referen	nce column
5 H-L-horizontal	QI-SM-53218-H-L-horizontal	QI-SM-53222-H-L-horizontal	QI-SM-53227-H-L-horizontal		9 0 Numbe	r of table-sets for merging	Const 🔿 normali	ization
6 H-M-horizontal	QI-SM-53219-H-M-horizontal	QI-SM-53223-H-M-horizontal	QI-SM-53228-H-M-horizontal			0		
7 H-J-vertical	QI-SM-53217-H-J-vertical	QI-SM-53221-H-J-vertical	QI-SM-53226-H-J-vertical		30% Overlap	o control	0 (plus) le	eft-side points
8 H-L-vertical	QI-SM-53218-H-L-vertical	QI-SM-53222-H-L-vertical	QI-SM-53227-H-L-vertical		• Either (V	Vild Card)	0 (plus) ri	ight-side points
9 H-M-vertical	QI-SM-53219-H-M-vertical	QI-SM-53223-H-M-vertical	QI-SM-53228-H-M-vertical		Indexing [Output]	Sector and the sector of the s	scale error-bars too	3
					+ Read from active 1	[able	+ Save as a new Table	
					New Table Name	Q-Range-1	Q-Range-2	Q-Range
					1 H-J	QI-SM-53217-H-J	the second se	QI-SM-53226-H-J
					2 H-L 3 H-M	QI-SM-53218-H-L QI-SM-53219-H-M	the state of the local division of the state	
					4 H-J-horizontal	QI-SM-53217-H-J-horizont		
					5 H-L-horizontal	QI-SM-53218-H-L-horizont		
					6 H-M-horizontal	QI-SM-53219-H-M-horizon		
					7 H-J-vertical 8 H-L-vertical	QI-SM-53217-H-J-vertical QI-SM-53218-H-L-vertical		the second state and the later of the second state of the second s
					9 H-M-vertical	QI-SM-53219-H-M-vertical		
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Tables are ready

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•	•		⊞H-J - Merged Ta	bles >> QI-SM-5321	H-J, QI-SM-5322	21-H-J, QI-SM-53226-H	-J,	00		DAN	
	Q[X]	[Y]	dl[yEr]	Sigma[xEr]				💽 🍋 KWS1-20	20		
1	2.706970E-03	5.958568E+02	4.594410E+00	1.453703E-03					Rawdata Tools Mask	Sensitivity Data Pro	cessing Merge
2	3.248361E-03	2.243431E+02	6.854098E-01	1.455701E-03				Options	Rawdata loois Mask	Sensitivity Data Pro	cessing Merge
3	3.789751E-03	1.655166E+02	3.948253E-01	1.458059E-03				Merging Options	s ::	Smart merging ::	
4	4.331140E-03	9.433806E+01	2.465308E-01	1.460775E-03				3 🗘 Nun	nber of tables for merging	1 C Refere	nce column
5	4.872527E-03	5.745919E+01	1.768180E-01	1.463847E-03							1
6	5.413912E-03	3.868344E+01	1.415649E-01	1.467273E-03				9 C Nun	nber of table-sets for merging	Const 🗘 norma	lization
7	5.955295E-03	2.764908E+01	1.156358E-01	1.471050E-03				30% 🗘 Ove	rlap control	0 (plus)	left-side points
8	6.496675E-03	1.967770E+01	9.047834E-02	1.475176E-03						o (olue)	right-side points
9	7.038053E-03	1.443091E+01	7.494643E-02	1.479647E-03				Filte	er (Wild Card)	o (plus)	ng n oldo político
10	7.579428E-03	1.137449E+01	6.441464E-02	1.484462E-03				Indexing [Out		Scale entri-bais too	
11	8.120799E-03	8.607297E+00	5.452158E-02	1.489615E-03				+ Read from activ	Ale Selector	Save as a new Table	
12	8.662168E-03	7.218709E+00	4.936526E-02	1.495104E-03				New Table Nat		Q-Range-2	Q-Range-
13	9.203533E-03	5.556774E+00	4.068226E-02	1.500925E-03				2 H-L	QI-SM-53217-H-J QI-SM-53218-H-L		QI-SM-53226-H-J QI-SM-53227-H-L
14	9.744894E-03	4.636202E+00	3.722305E-02	1.507074E-03				3 H-M	QI-SM-53219-H-M	QI-SM-53223-H-M	QI-SM-53228-H-M
15	1.028625E-02	3.854444E+00	3.387287E-02	1.513547E-03				4 H-J-horizontal 5 H-L-horizontal	QI-SM-53217-H-J-horizont		
16	1.082760E-02	3.300513E+00	3.027671E-02	1.520341E-03				6 H-M-horizontal	QI-SM-53218-H-L-horizont		
17	1.136895E-02	2.826238E+00	2.760764E-02	1.520341E-03				7 H-J-vertical	QI-SM-53217-H-J-vertical	QI-SM-53221-H-J-vertice	QI-SM-53226-H-J-ve
17	1.191030E-02	2.309720E+00	2.369389E-02	1.534870E-03				8 H-L-vertical 9 H-M-vertical	QI-SM-53218-H-L-vertical QI-SM-53219-H-M-vertical		
18	1.191030E-02	2.081745E+00	2.369389E-02 2.320732E-02	1.542597E-03				3 Him Venucal	QI-SM-53219-FI-M-VERICal		QI-5M-53228-H-M-V
20	1.299297E-02	1.832820E+00	2.115213E-02	1.550627E-03							
21	1.353430E-02	1.571639E+00	1.893052E-02	1.558954E-03							
22	1.407562E-02	1.419160E+00	1.768802E-02	1.567574E-03							
23	1.461694E-02	1.281948E+00	1.635956E-02	1.576481E-03							
24	1.515825E-02	1.174161E+00	1.577773E-02	1.585672E-03				After Merging: rer	nove first: 0 points	remove last: 0 poin	ts
25	1.569956E-02	1.029536E+00	1.428914E-02	1.595141E-03				♦ Merge [project]		→ Merge [ascii]	
26	1.624086E-02	9.286797E-01	1.322119E-02	1.604883E-03						DAN	
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	dan-example-kws1						Name	Туре	View Created Label		
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Plotting "H-M" sample averaged with 3 masks

