analysis_memo

BL05 data structure

summary of important measurements

Direct measurement

run #	SF
20210714193654	
20210717040703	OFF

Manual scans of the sample Fe 30 nm

run #	L_labview I(A)	real I(A)	mag B (kitaguchi)	SF ON/OFF	Reflection beam x (mm)
20210715075452	0	-0.0041	-0.32198	off	47.2
20210715081447	0	-0.0041	-0.32198	off	47.09
20210715084835	0.15	0.129145	-0.90759	off	47.04
20210715085349	0.264	0.230411	-1.35266	off	47.2
20210715082606	0.378	0.331677	-1.79772	off	47.2
20210715083711	0.6	0.52888	-2.66443	off	47.2
20210715072653	1.97	1.745851	-8.01302	off	47.18
20210715080233	0	-0.0041	-0.32198	on	47.07
20210715082018	0	-0.0041	-0.32198	on	47.13
20210715085144	0.15	0.129145	-0.90759	on	47.1
20210715085714	0.264	0.230411	-1.35266	on	47.19
20210715083141	0.378	0.331677	-1.79772	on	47.24
20210715084052	0.6	0.52888	-2.66443	on	47.21
20210715073913	1.97	1.745851	-8.01302	on	47.11

Manual scans of the sample Fe 90 nm

L_labview I(A)	real I(A)	H (mT)	SF ON/OFF	Reflection beam x (mm)
0	-0.0041	-0.32198	off	
2	1.7725	-8.13014	off	
2	1.7725	-8.13014	on	
0.37	0.324571	-1.76649	off?	
0	-0.0041	-0.32198	off?	
0	-0.0041	-0.32198	on	
0.265	0.2313	-1.35656	off	
0.265	0.2313	-1.35656	on	
	0 2 2 0.37 0 0 0.265	0 -0.0041 2 1.7725 2 1.7725 0.37 0.324571 0 -0.0041 0 -0.0041 0.265 0.2313	0 -0.0041 -0.32198 2 1.7725 -8.13014 2 1.7725 -8.13014 0.37 0.324571 -1.76649 0 -0.0041 -0.32198 0 -0.0041 -0.32198 0.265 0.2313 -1.35656	0 -0.0041 -0.32198 off 2 1.7725 -8.13014 off 2 1.7725 -8.13014 on 0.37 0.324571 -1.76649 off? 0 -0.0041 -0.32198 off? 0 -0.0041 -0.32198 on 0.265 0.2313 -1.35656 off

Manual scans of the sample Fe 50 nm

run #	L_labview I(A)	real I(A)	H (mT)	SF ON/OFF	Reflection beam x (mm)
20210717051355	0	-0.0041	-0.32198	ON	
20210717052755	0	-0.0041	-0.32198	OFF	
20210717054725	2	1.7725	-8.13014	OFF	
20210717055945	2	1.7725	-8.13014	ON	

List of automatic scans

Scan name	run #	sample t	e I_start (LV, A)	I_end (LV, A)	dI (LV, A)	SF ON/OFF	Comments
	20210716193147	730 nm	0.15	0.26	0.01	OFF	Manually stopped due to beam trouble?
	20210716201056	30 nm	0.15	0.26	0.01	OFF	Cannot identify the scan file, lost by overwriting?
scan20210713_flipper_agilent_scan_1	20210716210153	330 nm	0.2	0.22	0.00	5 ON/OFF	Observed the transition between 0.15 and 0.22A
scan20210713_flipper_agilent_scan_long_1	20210716220736	30 nm	0	2.0	2.0	ON/OFF	
scan20210713_flipper_agilent_scan_rough_	120210716235619	90 nm	0.37	0.27	0.01	OFF	Wait: 80 s / kp 2000
scan20210713_flipper_agilent_scan_rough_	2 20210717002421	1 90 nm	0.47	0.37	0.01	OFF?	Wait: 80 s / kp 2000
scan20210713_flipper_agilent_scan_rough_	3 2021071701112	1 90 nm	0.35	0.10	0.05	OFF?	Wait: 40 s / kp 1000
scan20210713_flipper_agilent_scan_fine_1	20210717012326	390 nm	0.240	0.265	0.00	5 ON/OFF	The N was 13 (should be an even #), manually stopped?
scan20210713_flipper_agilent_scan_rough_	420210717024407	790 nm	0.265	0.325	0.01	OFF?	
scan20210713_flipper_agilent_scan_fine_3	20210717030252	290 nm	0.295	0.325	0.00	5 ON/OFF	Wait: 240 s / kp 6000
scan20210713_flipper_agilent_scan_rough_	5 20210717050342	250 nm	0.19	0.36	0.01	OFF	Wait: 20 s / kp 500
scan20210713_flipper_agilent_scan_rough_	620210717054010)50 nm	0.23	0.262	0.002	2 OFF	Creation time of the scan file is 05:21. Due to the beam stop? Wait: 20 s/kp 500
scan20210713_flipper_agilent_scan_fine_5	2021071706170	1 50 nm	0.23	0.25	0.002	2 ON/OFF	Manually stopped at 07:25