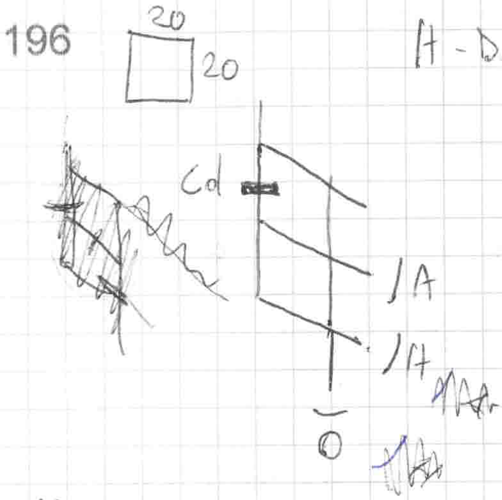
22.9.2025   3-16-19   symm. double loop ifm 30°
-USANS-mono

196



H-Det scan: -62.5

IT WAS AUX

TILT SCAN (2s/point H fit)

φ_1	PEAK	FWHM
-1.70	3803	0.000398
-1.73	4407	0.000365
-1.76	4583	0.000383 (FLAT PEAK, UNUSUAL SHAPE
-1.79	4574	0.000327 (UNUSUAL SHA.
-1.82	4026	0.000364
-1.77	4561	0.000343 ✓* (NORMAL SHAPE)

camera_IN.sc (Pos 7.00)
camera_OUT.sc (Pos 70.00)
ifg1_test.sc (TEST PS 1)
ifg1_test_22Sep1847.inf (C ~ 0.55, NO OSCILLATION IN H-BEAM, PROBABLY WRONG DET. POSITION)
NEW H-DETECTOR POS: -58.5
ifg1_test_22Sep1855.inf (C ~ 0.55)

~~22.9.2025~~

ifg1_3p200s 22Sep1930   up to 73% locally
ifg2_3p200s 22Sep2123
⋮

23.9.2025 ifm moved 3mm ↙

RO_23Sep0826, 0835   Aperture 2 from 15 to 17
(ifg1_3p200s_23Sep0837)   camera 3mm ↓
0854 — C ≈ 70% (PIXEL 5,5)
C ≈ 78% (PIXEL 3,3)
A bit of phase gradient

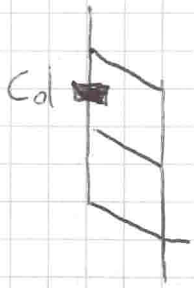
BLOCK PATH 1

iFg2_3p200s_B1_23Sep1203.inF
Intensity drift, probably peak drift.
Repeating the measurement.
iFg2_3p200s_B1-23Sep1406.inF

Big phase gradient, placed post-it under IFM as last time (page 166).

TILT SCAN (2s ~~AUG~~ FIT)

P_1	PEAK	FWHM
-1.67	1182	0.000355 ✓
-1.64	1139	0.000379
-1.70	1106	0.000395



~~Phase~~ Robot prepared to block each path.
Robot dizg pos:
PATH 1 → -10000, 30 deg rotation
PATH 2 → 10000, -30 deg rotation
PATH 3 → 45000, 30 deg rotation

Started IFG for each loop

24.09.2025

PS
BLOCKED PATH

iFg2_3p200s_B1_24Sep0018.inf
iFg1_3p200s_B2_24Sep0211.inf
iFg2_3p200s_B2_24Sep0402.inF
iFg1_3p200s_B3_24SepOSSS.inf

Overall good contrast and phase ~~stability~~

Unfortunately bumped robot with Col into ~~setup~~ IFM.

Starting again from scratch.

198 TILT SCAN (2 s H-DET)

P1	PEAK	FWHM
-1.6	983	0.000376 ✓
-1.65	866	0.000395
-1.56	947	0.000367
-1.58	954	0.000375
-1.62	968	0.000367

Piezo stopped working, somehow fixed it.
Starting again from scratch.

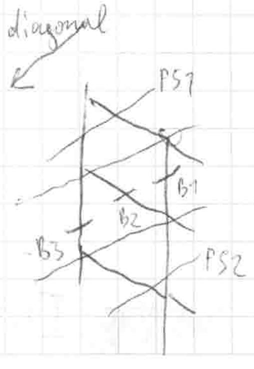
TILT SCAN (2 S H-DET)

P1	PEAK	FWHM
-1.5	1076	0.000382
-1.55	1031	0.000377 ✓
-1.6	875	0.000456

Robot re-prepared to block each path

BLOCK PATH	ROBOT DIAG	ROT
1	-20000	30
2	-4000	-30
3	28000	30

Started IFG for each loop (120 s/point, hoping for two IFG each loop)

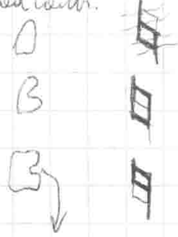


2nd loop: ifg2_3p120s_B1_25Sep0055

big loop:	1	B2	0207	→ rocking failed
	2	B2	0317	
1st loop:	1	B3	0428	

intensity high up

area of good couch.



2nd lamella?
PS1 ?

10 □ 10 ~~aperture Z~~ moved to 15 (before: 17)

mono Lo Gon – 25Sep 0838 → −1,25 (before: −1,1)

7800 cps (before 7500 cps)

A H mono Rot – 25Sep 0842 31,01 (bef: 31,00)

0

g	Aux FWHM	in 2s
−1,05	0,000454	1239
−1,1	347	1770
−1,15	397	1833
−1,20	37	1519
−1,13	365	1828

15 □ 20 PS1 cleaned

ifg1–3p120s_B2–25Sep0922 big loop ◉ low contrast area

ifg2–3p120s_B1–25Sep1045 second loop

ifg1_3p120s_B3_25Sep1150 first loop ▣ low contrast area

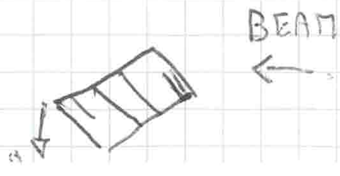
~~Cleaned~~ Cleaned IFM, starting again.

TILT SCAN

P1	H PEAK	H FWHM	AUX PEAK	AUX FWHM
~~−1.13~~	~~801~~	~~0.000470~~	~~2961~~	~~0.000478~~
−1,2	1063	0.000343	4084	0.000344 ✓
−1,1	640	0.000609	2332	0.000627
−1.3	860	0.000441	3227	0.000427
−1.25	1017	0.000382	4050	0.000370
−1.15	861	0.000453	3148	0.000448
−1.22	1088	0.000381	4069	0.00418
−1.18	981	0.000410	3909	0.000365

ifg1_3p120s_B2_25Sep1545.inf ▣

Low contrast spot still there, moved IFM



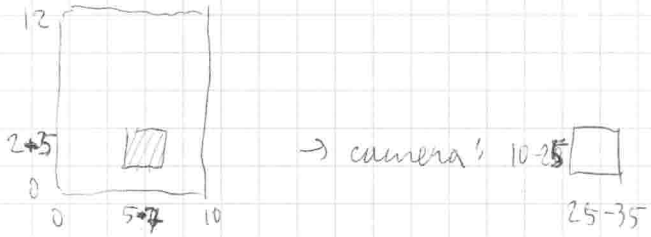
TILT SCAN [2 s]

		M		AUX	
	P1	PEAK	FWHM	PEAK	FWHM
200	-1.2	1165	0.000347	21518	0.000360 ✓

Started measurements for each loop (IFG CAMERA)

26/09/2025

Ref spot:



aperture Y=21
Z=15

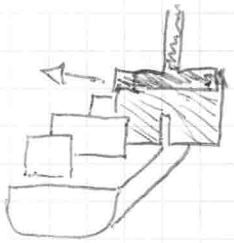
Contrast ≥ 60% ~65% for all paths, good enough.

Prepared Cd slit for beams position/thickness

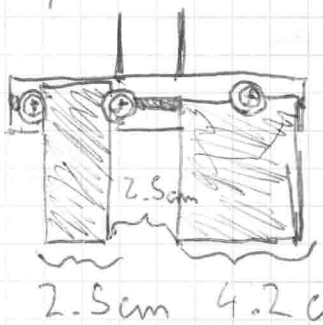
robot_diag_slit_Cd_90deg..... .inf

BEAM THICKNESS ~ 7.5 m.m.

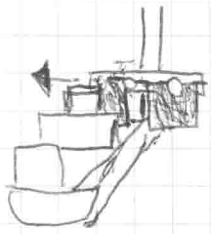
ROBOT ROT BIG



Prepared double Cd blocker



Scanned doble Cd blocker



robot_diag_double_Cd_90deg.....inf