Cyrcé TimesCot 21.10.24 Guildup of the away with Stephane (-7:45) mean position for Matrix 1 mm aray: X=22 1 y=7125 (we had to manually move the x-stage to aing it back into allowed over was moved to Cimil switch) fast check with vollage: polerisation on AMS c'ocurs seemight a we sport with signal check in the beam (center) 4) 1st check if everything works (seemingly) voltage son 0-> 21, Crearity 1nA > 2.5n/t - {20- Mini-Voltage Sellar - 200 um - 2-nA 3 - restart - voltage not hinesity ~ lus InA changed ge not - {2D_Mm - Dork - Vollage Greety - Joseph - 2+ nA3 onA {20- run: - Vollage Whenty - 20ppn - 0,51nA } 0.51nA > 0.50m 11 real 2 - 11 209 mm - 2,04 - nA $\frac{3}{3}$ 2,04 nA $\frac{1}{7}$ 2,045 n 2,50-nA } 2,506/nA -> 2,47 M - YScan - 209µm - 20 nA 3 2,0 -> 1,88 nA - {20 Min - Full XY Scan - 200 mm - 2,0- nA 3 1,98nA -> 1,89nA We do this with different vallages at each pointon) - First for rand operative, then for objects 3 2,02 nA > 1,93m 11 - Super Res San -X = 0.25 mm 47 with diffused beam { "- Spr Res Scany Misc Ster } 7,01 n A > 1,93n A cente: 22 | 71.25 x 215+ 20 22,5 => We apply this 4x4 portan scheme ¥70,75 -> 71,75 for super Res tests = 16 steps with sine resolution + a vollege seen from 0,9 -> 1,9

- We want to partion on 1145/2= y Itanget = I cup x 0,574 Sfor of Mix Sello Shape 574/2 = X - We carbrue with a Sca of the whole misk (different allege 0,971,9V) 2,03nA -> 1,90 nA 11.16 Gafelronic Image - We reposition the away for the Cive scan over Cunch \$20. Mni Line 0-Mn? 2,00 nA ->
4 we comed use 0,25 cm Ame (file same cond recognized)
4 we use 15 4 we use 1s 4 mag directory - ne can use 9,25 We finish at - 14:00 (and a Safetranic should be father directly afferwards - We scan the middle of the diffused beam at different mation energies - We chaose position 0,48, 10, 15, 18, 19 (+x+ file · For diff. beam: - Wheel O 2,03nA > 2,04nd "Beam-Wellx-13-Wheel 5 2,04 nA 7 2,04 nA 4) put the - Whell M 2,05 nA > 2,05 nA Lablien Wheel - Wheel 15 Z, 05 nA -> 2, 05 nA 7.05 nA -> 3,05 nA poster in the - Wheel 18 2,05 nA > 2,05 nA file name - Wheel 19 - Wheel 20 7,03 n/ -> 2,05 nA We now do y-trenslated measurement after Bigh dose 1: 55.25 -> 87.25 | 0.5 steps 2,05 nA -> 2,05 nA 5:08] { Intended with voltage scan, but not working ~> po all on 1,9 V] Ennearly Scan offes: -500 pA -> 500 pA Einearty Affer_ 11-x-nA3 - Moon A -> 1,00nA -1,52nA -> 1,52nA

-2,53 A -> 2,33 NA We image the Mise shape in the rand gretive is We want to image grand the & sign & Mise Wheel x 3 x: 24 -> 35 /2.75 Mens y: 63.25 -> 66 /2.75 step 425Jm · Wheel 1 : 2,05 n A > 2,05 n A 20 Ad - Wheel 5: 2,05 nA > 2,03 nA fleronel - Whell 11 2,05 nA - 2,05 n/ - Wheel 15: 2,06 nA > 2,056nA - Wheel 18: 2,036nA = 2,050 nA - Wheel 19, 2,053 nd > 2,053 nd Wheel 20: 2,053nA -> 2,05 nA - We inself the wedge marking aligned to telescope - Ne measure for each wheel parition: (y scan 59.25 -> 53.25/1. seps, 1s sample rige)

- wheel 1: 2,05,A-> 2,05,nA 14: 2,044,A-> 2,05, · wheel 1: 2,05,A> 2,05,nA 15: 2,043 nA > 2,048 · wheel 2: 2,05 nA + 2,05 nA 16: 2,046n 17 2,049. wheel 3: 2,05nA - 2,046nA 17: 2,046n/ 52,05W 4: 2,043nA > 2,043nA 18: 2,05 n 4 3 2,048N 5: 2,05 n/ - 32,05 n/ 19: 2,048 N - 3 2,050 N 6: 2,05 nA -> 2,05 nA 20: 2,045 nA = 2057 M 7: 2,95 n/ -> 2,05 n/+ 8: 2,03nA 7 2,05 nA 9: 2,05nA -> 2,046nA 19: 2046nt -> 205nt 11: 2,05nA -> 2,05nA 12: 2,05nA -> 2,046nA 13: 2,047 1 -> 2,045 1

- We chem 27/1	132.75	
	66.375	
$-\omega 4$ 2.06 wheel 2	2.06 nA	
wheel 3		
	2.06nA	
5	$2.065nA \rightarrow 2.066nA$	9
6	$2.066 \text{ nA} \rightarrow 2.067 \text{ nA}$	
7	$2.067 \text{ nA} \rightarrow 2.07 \text{ nA}$	
8	2.07 nA → 2.07nA	
. 9	$2.07 \text{ nA} \rightarrow 2.07 \text{nA}$	
10	$2.072nA \rightarrow 2.072nA$	
11	$2.073nA \rightarrow 2.075nA$	
12	2.074 2.075 0	
13	$2.072 \text{nA} \rightarrow 2.075 \text{nA}$ $2.075 \text{nA} \rightarrow 2.075 \text{nA}$	
15	$2.074 \text{ nA} \rightarrow 2.075 \text{ nA}$ $2.074 \text{ nA} \rightarrow 2.075 \text{ nA}$	
16	$2.078nA \rightarrow 2.08 nA$	
17	$2.044 nA \rightarrow 2.044 nA$	
18	$2.043nA \rightarrow 2.045nA$	
19	$2.043nA \rightarrow 2.046nA$	-
20	2.044 nA > 2.048 nA	