

10/4/2018

 $N = 7$ Be lenses

Focusing tests

 $R = 0.2 \text{ mm}$

Going to 7.35 keV on one ID

file comm 20181002 ~~scan 97~~

mo

#97 ping scan

Decided to go to 225 μm on si1 vgapprevious measurement with lens
contrast#98 cr1z -0.5 0.5 40 1 w/ si2
repeat w/ si2 = 1000 μm #99 cr1z -0.5 0.5 40 1 (good scan)
nice scan

flux	65875	2.6×10^{10} ph/s	w/o lens	Transmission 78% over 225 μm
over	225 μm	2.05×10^{10} ph/s		
		78%		

#100 ascan si3 vgap -20 150 34 0.1

#101

102

u

u

200 250

leave si3 vgap at 225

#103

si4 vgap

#104

u

#105 lup sam2 - found focus

#106 lup sam2 -0.05 0.05 50 1

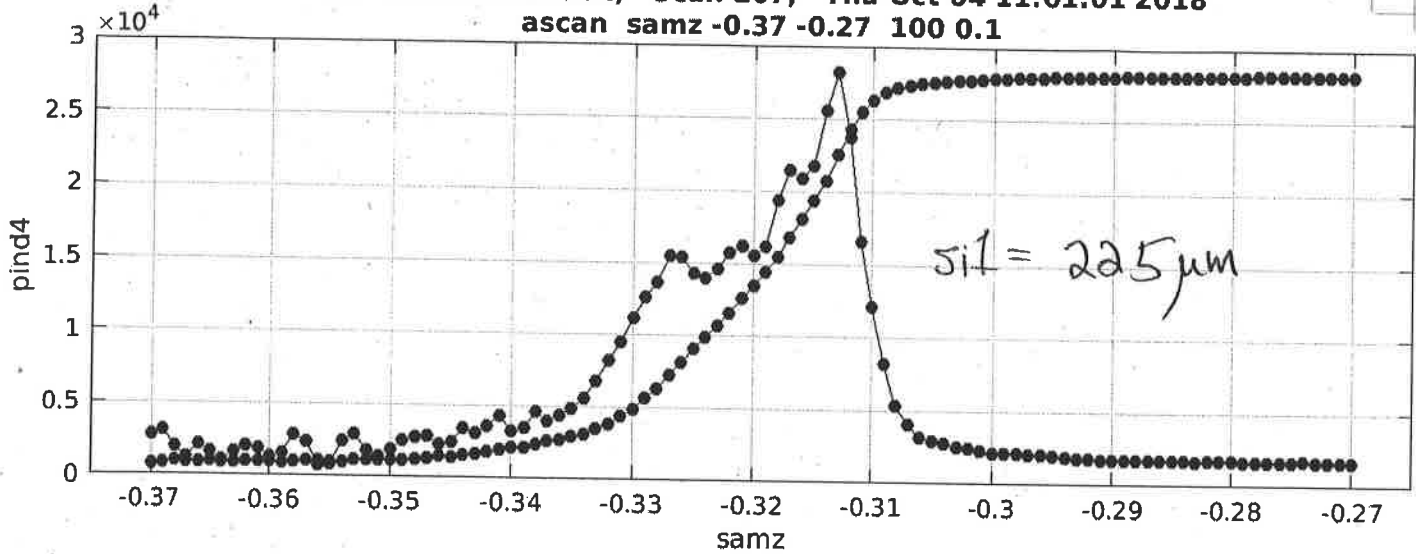
11h01 10/4/2018

81

107 good samz scan. w/ slit = 225

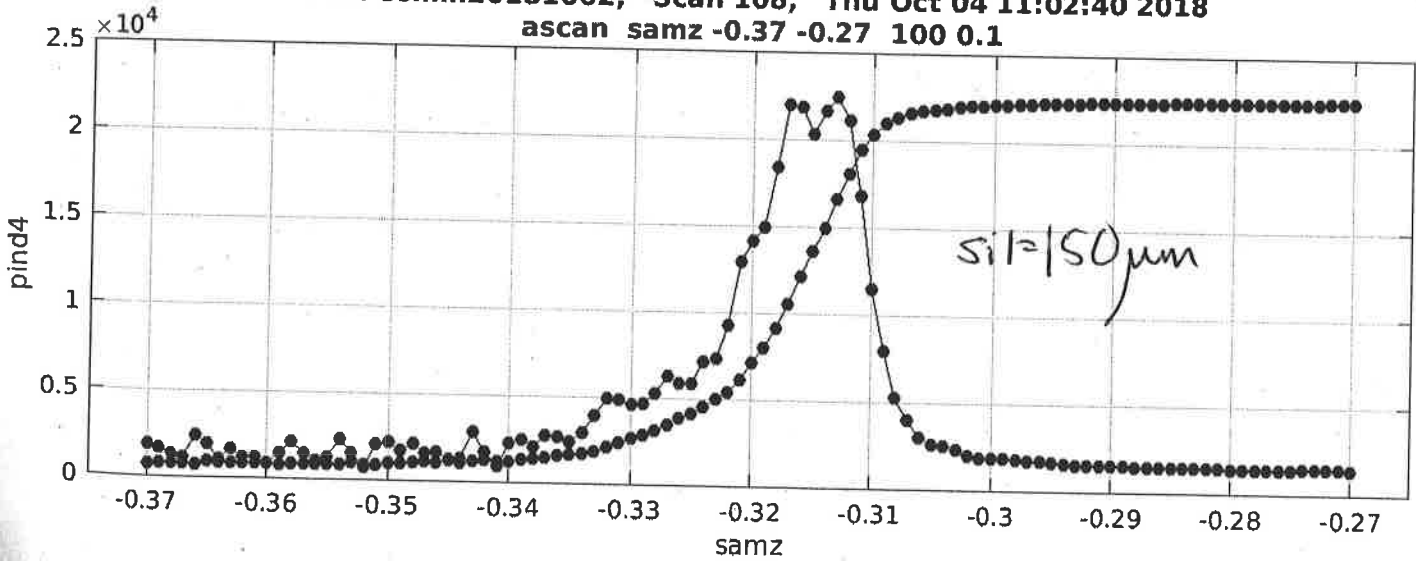
108 w/ slit = 150 11 μm

File: comm20181002, Scan 107, Thu Oct 04 11:01:01 2018
ascan samz -0.37 -0.27 100 0.1



Peak 28201 @ -0.27, COM -0.29747, FWHM 0.049328 @ -0.31933

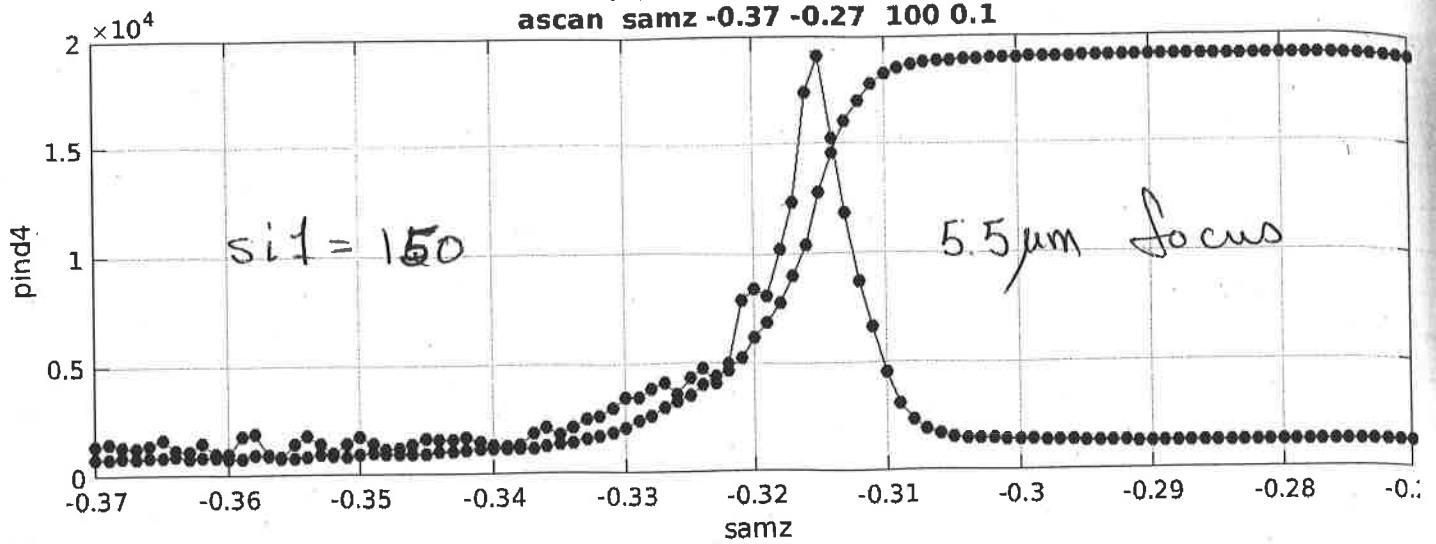
File: comm20181002, Scan 108, Thu Oct 04 11:02:40 2018
ascan samz -0.37 -0.27 100 0.1



Peak 22420 @ -0.27, COM -0.29633, FWHM 0.046587 @ -0.31659

Suresh realigned slit 5 μgap

File: comm20181002, Scan 115, Thu Oct 04 11:11:37 2018
 ascan samz -0.37 -0.27 100 0.1



Peak 19065 @ -0.282, COM -0.29656, FWHM 0.046585 @ -0.31658

flux $\sim 1 \times 10^{10}$ ph/s w/ one umd A.