

8n12

10/1/2020

81D Alignment

P1

81D FEV closed
as well as BIU

Called in
FE trip earlier / Called FC / Rent FEV
and BIU. All good.

New file lineup 2020 1001

#1 time scan

w/ si1 = 250 x 250, we see $9.74 \times 10''$ ph/s

D
A
R
K

pin1 1018
pin2 796
pin4 1461

flux pin1 209985-1018
 $9.65 \times 10''$ ph/s

IØ Mm Ø

Looks better than last week

#2 leap si1vcen -400 400 401 go to -60

umv si1vgap 150

moved centroid 40µm up.

si2hgap = 15 vgap = 180

umvr si2vcen 40

pkounter pin2

#3 leap si2vcen -100 100 40 1 (assume lens
No need to also move lens up if I do it

this way.

Open si2vgap, line up lens first.

umv si2vgap 1000.

#4 leap cmlz -0.3 0.3 501 umvr 0.04

#5 " " -0.5 0.5 501 moved to cen

#6 " si2vcen -200 200 501 w/ si2vgap 180
Went to CEN off 6µm.

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(P2)

move si2 hgap from 15 \rightarrow 50

#7 lup si2 hcen -150 150 50 1
SATURATED increased signal by $\times 3$
my mistake. Add att \Rightarrow set to 3

#8 lup si2 hcen -250 150 50 1
Suresh put in a silica capillary, not
the aerogel.

FWHM = 286 μm w/ 50 μm si2 hgap
move to CEN -62.5 was @ \emptyset

#9 ascan si2 hgap -10 15 25 1
Zero is perfect. left it open @ 15

si2 \Rightarrow 15 μm ht \times 180 μm V
att1 \Rightarrow 1.897

flux pind2 261658-796 \Rightarrow $1.21 \times 10^{10} \times 1.89$

att \emptyset flux pind2 541709-796 \Rightarrow
 2.5×10^{10} ph/s (don't think pind2)
saturated

si3 wide open

need to move si4 vcen 40 μm up
hcen -62.5

SN Think Cyber is OFF the NIM bin
vach.

#10 lup ti4xu -55 40 1

#11 lup ti4zu -3.5 3.5 70 0.1

#12 lup samx -3.5 3.5 70 0.1

Suresh opened si4/si5 1mm extra.

9h56 10/1/2020 81D-I alignment.

(P3)

xu -13.8735 zu 8.5

#13 mesh ti4zu 3 13.5 zo ti4xu -18.87
-8.87

Does z as inner loop.

SN think 120mm sample to Si3N4

Window is diagonal
 $2\text{mm} \times \sqrt{2} \Rightarrow 2.83\text{mm}$.



Elog 621 - 2.15 (H)
2.21 (V)

#23 ti4zu 1.69mm FWHM

#24 ti4xu FWHM 1.65mm

+ Qing teng aligned w/ burn
paper, was off in ti4xu

by -9.45mm - (-13.87)

4.41mm

to do

- ion chamber.
- pind3?
- IOMon