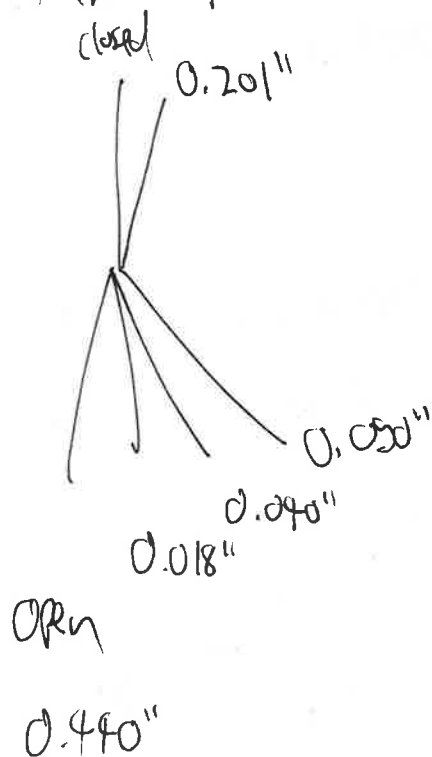


20/6/12/02: Friday

RMF run with variable aperture.

Aperture options:

Put the
edge of
the p.e
wedge on
these lines.



Aperture:	Size (diameter)
1	0.440" 1X
2	0.201" 4.8x lower
3	0.090" 24x lower
4	0.040" 121x lower
5	0.018" 598x lower
6	0 ∞x lower

9:32AM: 01 Noise spectrum (T=236K)

9:55AM: 02, high-p helicon, Aperture 1, ~~20,000 c/s~~ 21,000 c/s

9:57AM: 03, " " Aperture 2, 9,600 c/s

10:00AM: 04, " " Aperture 3, 2,600 c/s

10:02AM: 05, " " Aperture 1, 42,000 c/s. Drift. ↗

10:04AM: 06, " " Aperture 5, 107 c/s. 390x lower ↘

10:05AM: 07, " " Aperture 1 43,000 c/s ←

10:07AM: 08, " " Aperture 4 620 c/s 69x lower

10:08AM: 09, " " Aperture 1 43000 c/s

10:10AM: 10, High-P helicon Aperture 3 2100 c/s 20x lower.

10:11AM: 11 " " Aperture 1 42,000 c/s

10:13AM: 12 High helicon Ap 2 10,300 c/s 4.1x lower

10:14AM 13 High helicon closed! Ap 6. 0.01 c/s. 10⁴ x lower

Constant-brightness aperture scan ↑

Begin RMF scan ↓

10:23 AM: 14 low-power Helicon, Aperture 1. 20 c/s.

Begin RMF: RMF power fluctuates a lot.

4kW-16kW useless.

Total count $\approx 3 \times$ input count.

10:43AM 15 RMF 16-19kW Ap 1 total: 1,900 c/s pulse 0.004 ~ 500,000 c/s Marginal.
input: 300 c/s

10:49AM 16 RMF AP 6: closed! 0 c/s RMF pickup is not causing false counts!
input: 0 c/s

10:52AM 17 RMF 19kW $\pm 3-4\%$ Ap 2 520 c/s pulse 0.004 ~ 1000 c/s
input: 130 c/s

11:47: It's taken to 350 c/s.

11:49AM 18 RMF Ap 1 1,400 c/s to output.
input 400 c/s

~~H.8~~ 19

11:54 AM

19

RMF

Aperture 4

0.7%

input 0.05%

12:13 AM

20

RMF

Aperture 3

12-8%/0.004 = ^{pulse} 2000%/s

input 1%/s

1:04 PM

21

Higher RMF
(~100% higher)

Ap

1

1900%/s

input 500%/s

1:23 PM

22

Hyper RMF

Ap

2

500%/s

input 125%/s