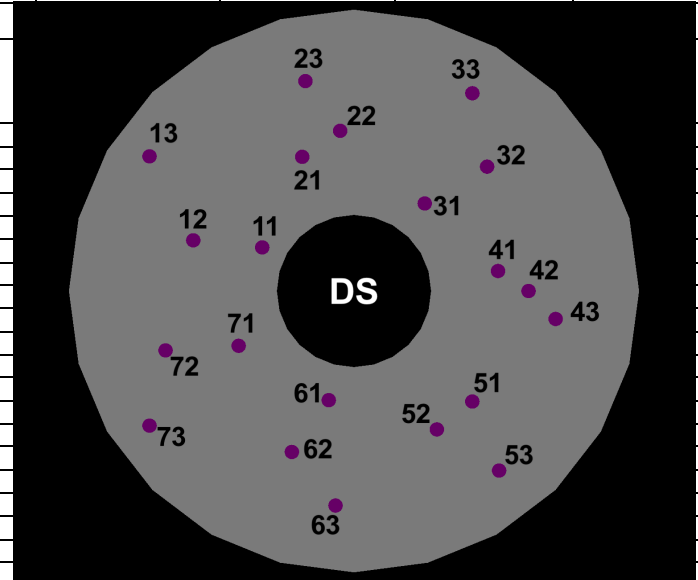


MOLLER Sieve Collimator Hole Pattern (July 5 2023)

Hole ID	Central Radial Location [mm]	Minimum Radial Location [mm]	Maximum Radial Location [mm]	Global Central Phi Location [radians]	Local Phi Offset [degrees]	Global X [mm]	Global Y [mm]	Hole Diameter [mm]
11	35	32.5	37.5	0.44880	0	31.534	15.186	5
12	58	55.5	60.5	0.30917	-8	55.250	17.648	5
13	84.5	82	87	0.58843	8	70.288	46.902	5
21	50	47.5	52.5	1.20677	-8	17.802	46.724	5
22	56	53.5	58.5	1.48602	8	4.742	55.799	5
23	75	72.5	77.5	1.34640	0	16.689	73.120	5
31	39	36.5	41.5	2.24399	0	-24.316	30.491	5
32	63	60.5	65.5	2.38362	8	-45.753	43.309	5
33	80	77.5	82.5	2.10437	-8	-40.689	68.880	5
41	50	47.5	52.5	3.00197	-8	-49.513	6.959	5
42	60	57.5	62.5	3.14159	0	-60.000	0.000	5
43	70	67.5	72.5	3.28122	8	-69.319	-9.742	5
51	56	53.5	58.5	3.89956	-8	-40.669	-38.497	5
52	56	53.5	58.5	4.17882	8	-28.482	-48.216	5
53	80	77.5	82.5	4.03919	0	-49.879	-62.547	5
61	39	36.5	41.5	4.93679	0	8.678	-38.022	5
62	60	57.5	62.5	5.07641	8	21.362	-56.068	5
63	75	72.5	77.5	4.79716	-8	6.350	-74.731	5
71	44	41.5	46.5	5.83439	0	39.643	-19.091	5
72	68	65.5	70.5	5.97401	8	64.776	-20.690	5
73	84.5	82	87	5.69476	-8	70.288	-46.902	5



View looking downstream

Inner Radius	26.5 mm
Outer Radius	98 mm
Thickness	100 mm

Notes:

- 1) All holes are the same diameter (5mm) and are parallel to the central axis (no tilt or taper)
- 2) The coordinate system here is positive x is to the left, positive y is upwards, and the azimuthal angle phi runs clockwise from +x
- 3) The image shows the sieve as viewed looking downstream, so positive x = left = beam left direction.
- 4) The local Phi offset is the offset from the centers of the 7 open sectors (beam right = open sector).
- 5) The global X and Y are simply calculated from the radius of the hole center and the global Phi
- 6) The hole ID is just for collaboration use; the first number is the sector, the second is index in increasing radial location