## PowHow performance with different moderator heights


> 1) extend ellipse to start at 2 m , focal point in source, hole for chopper between 6 m and 7 m --> guide entry height at $2 \mathrm{~m}: 2.4 \mathrm{~cm}$
> 2) alternative: two half-parabolas, first focal point in source --> direct line of sight blocked

- Simulation without choppers (only holes)
- Figure of merit (FoM): intensity in $1 \times 1 \mathrm{~cm}^{2}, \pm 0.25^{\circ}, 0.8-4.6 \AA$
- Benchmark: former symmetric guide with old moderator $12 \times 12 \mathrm{~cm}^{2}$


## Results:

, FoM is largest for 1.5 cm moderator height
> Phase space looks much better for 3 cm (second highest FoM)






