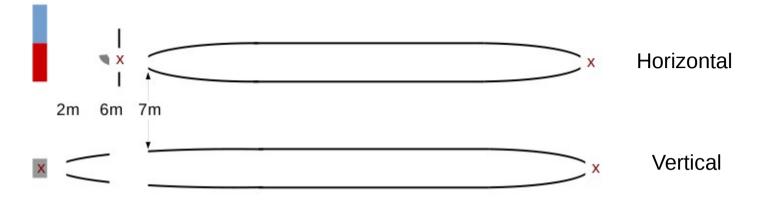
PowHow performance with different moderator heights



- > 1) extend ellipse to start at 2m, focal point in source, hole for chopper between 6m and 7m
 --> guide entry height at 2m: 2.4 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 1x1 cm², ±0.25°, 0.8-4.6 Å
- Benchmark: former symmetric guide with old moderator 12x12 cm²

Results:

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

