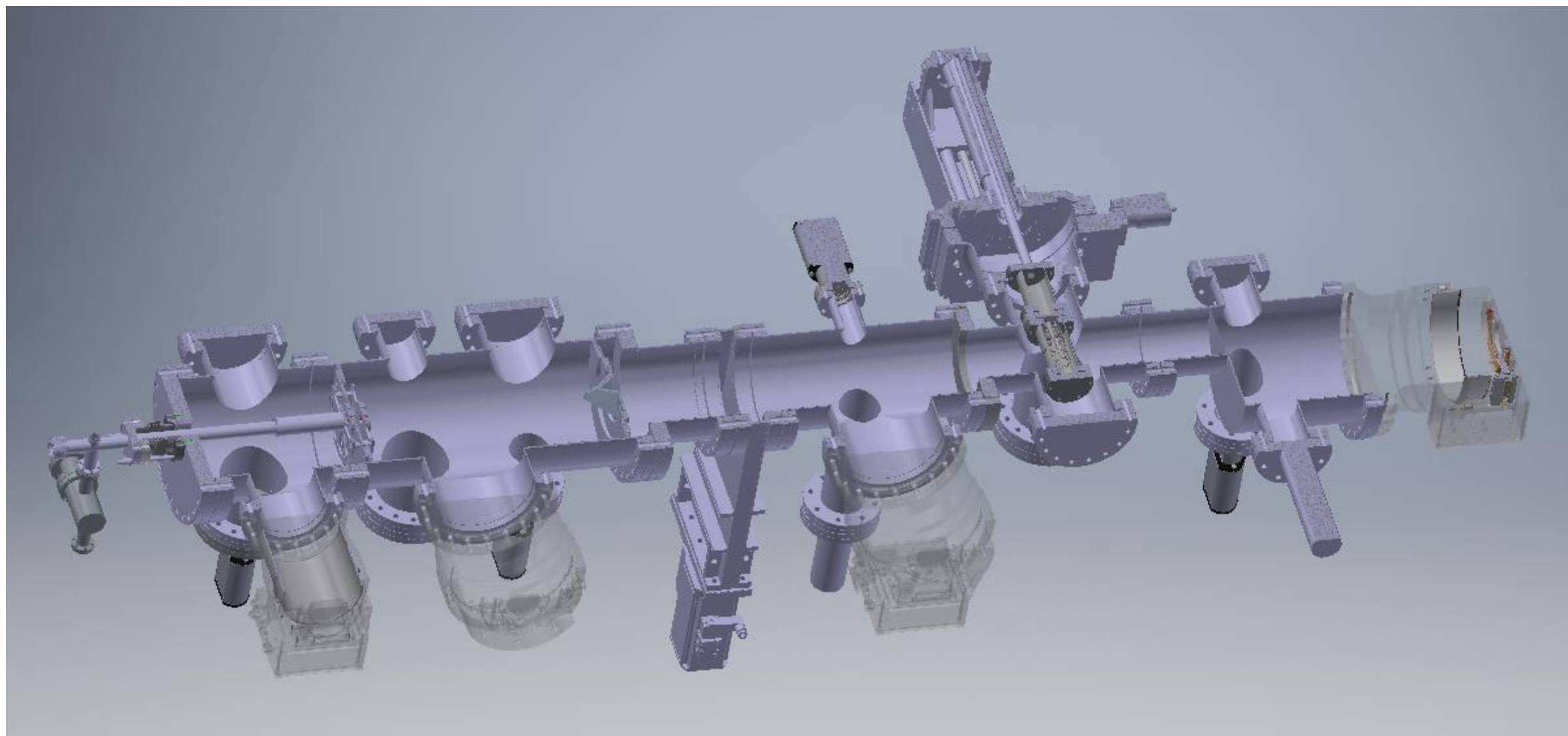
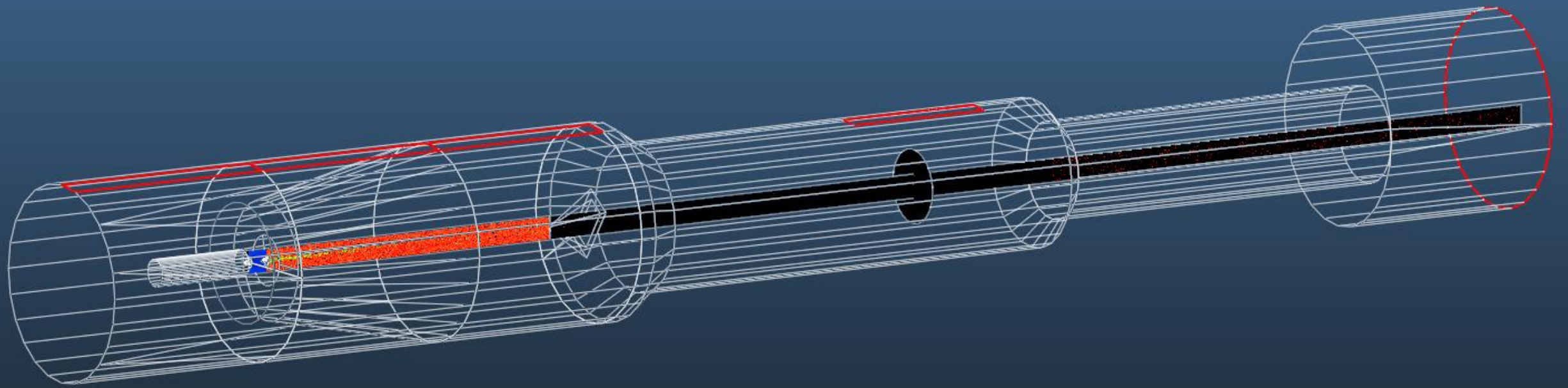


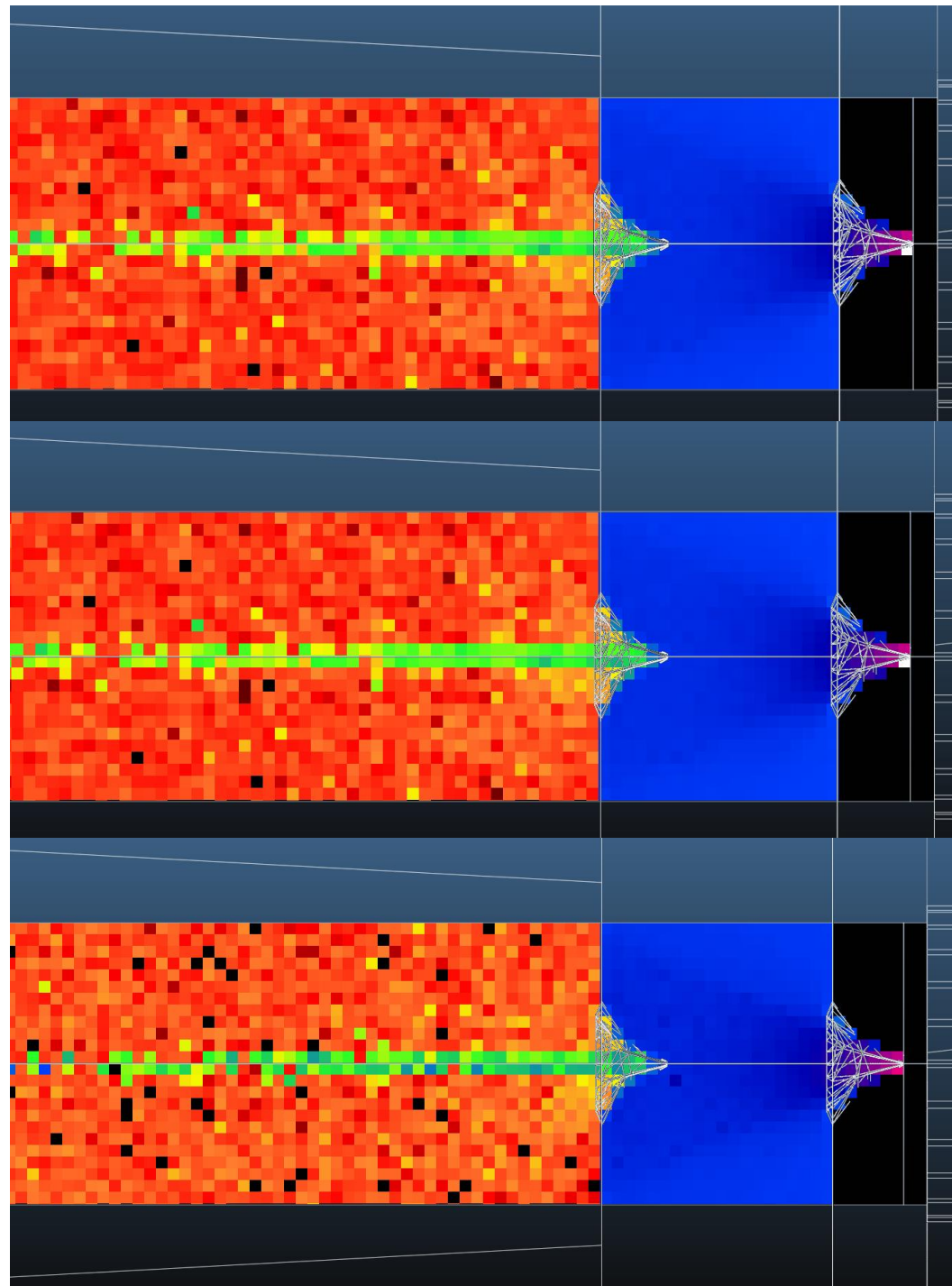
Low-pressure simulation update

Marton Ady

BGC meeting 02/02/2018



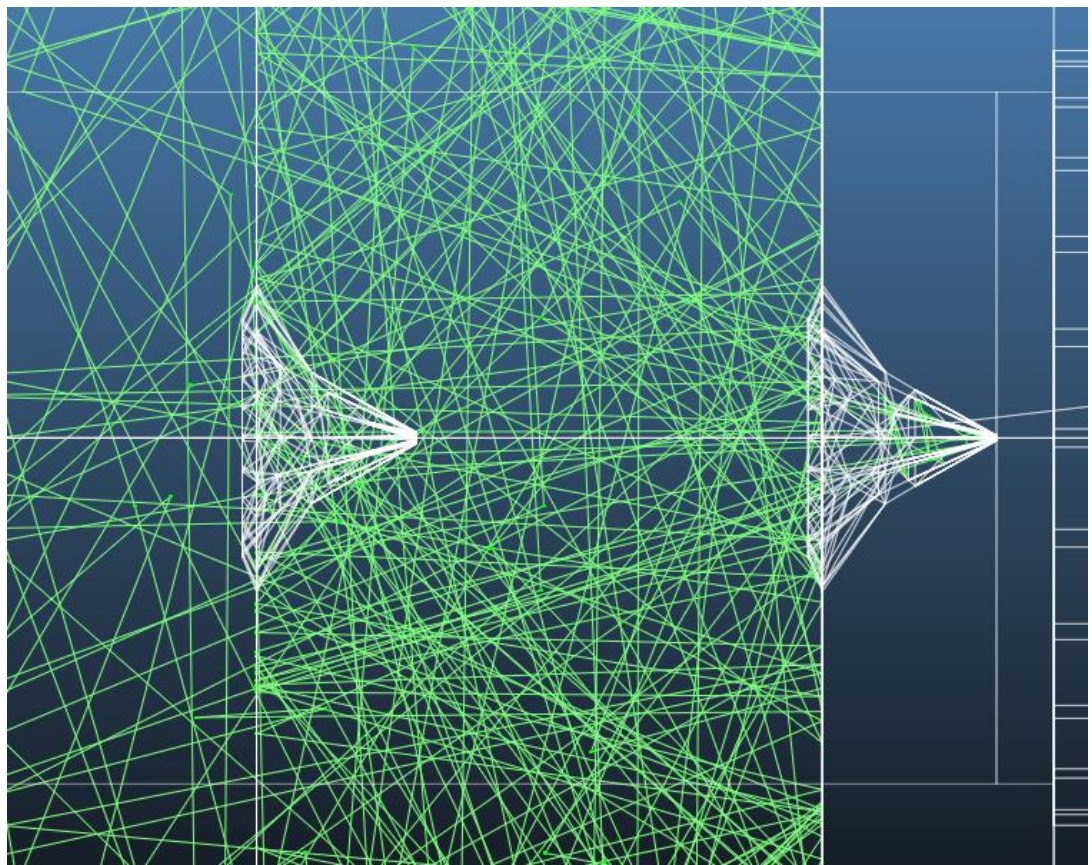




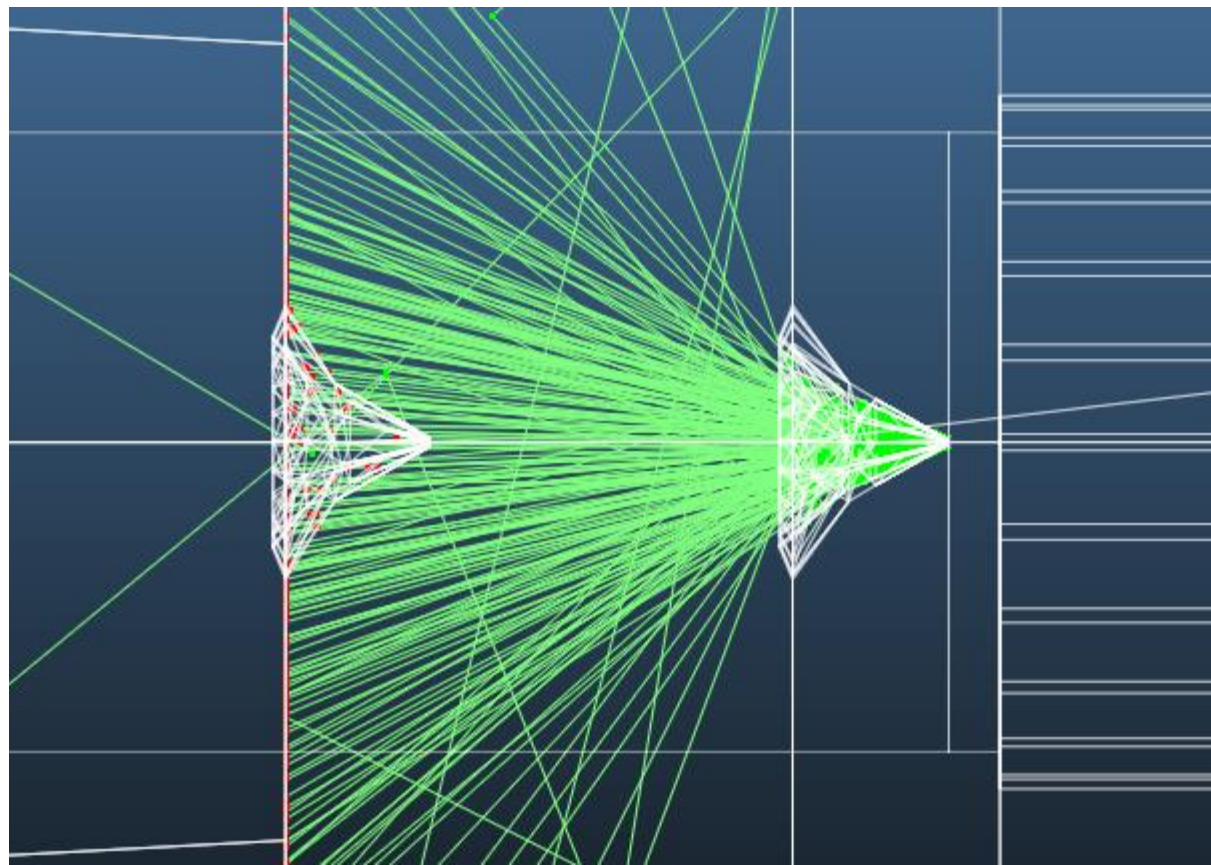
Uniform
(divergent)

Cosine
(medium)

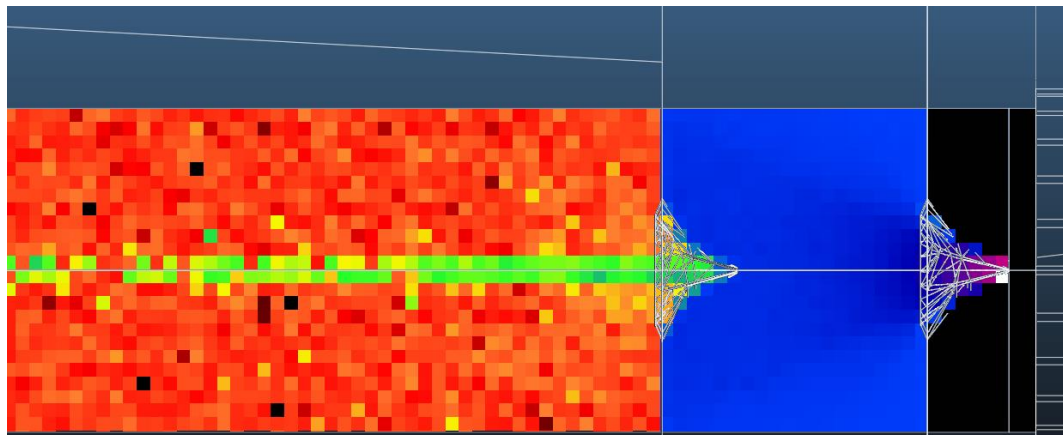
Cosine⁵
(collimated)



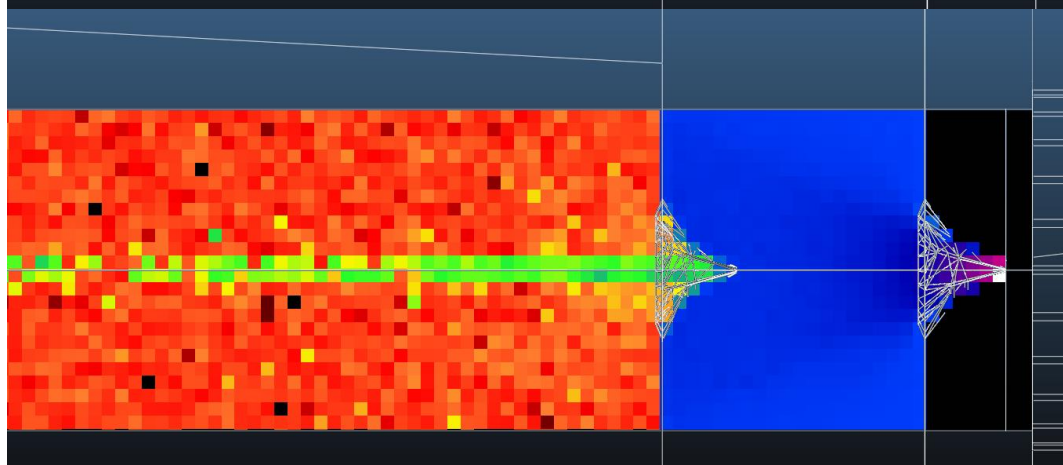
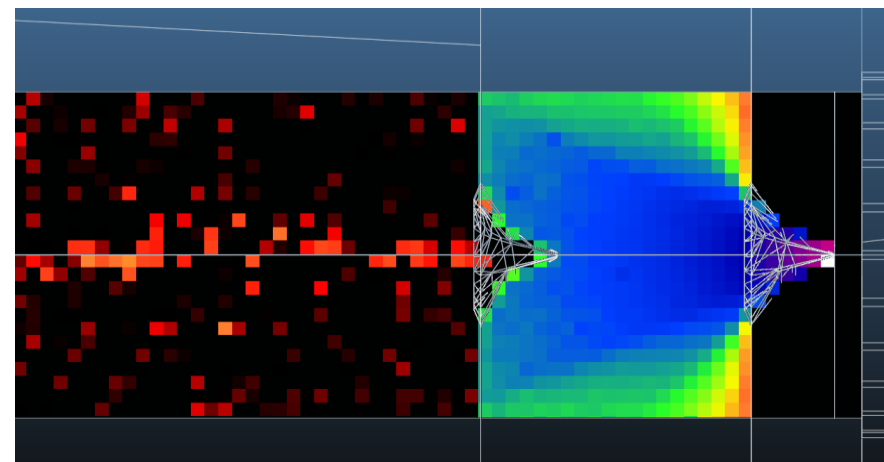
Normal simulation



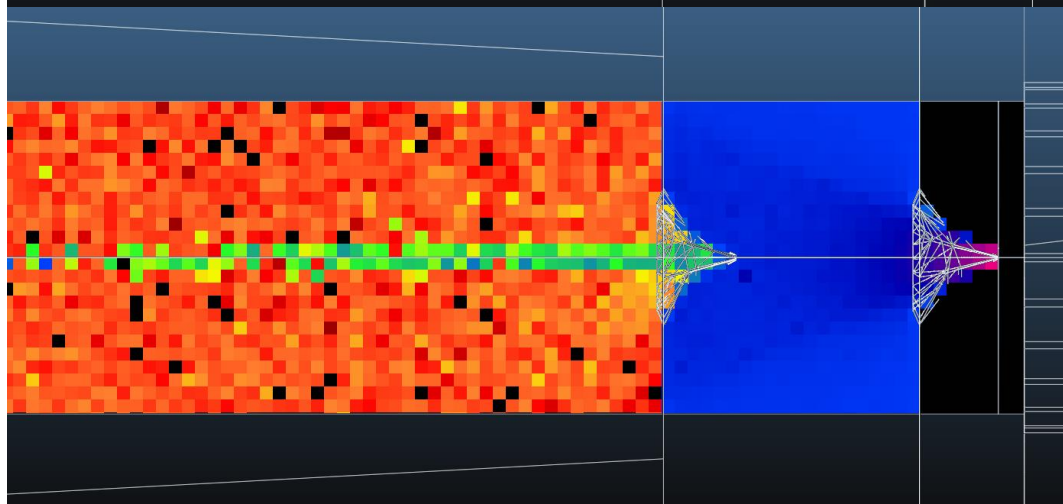
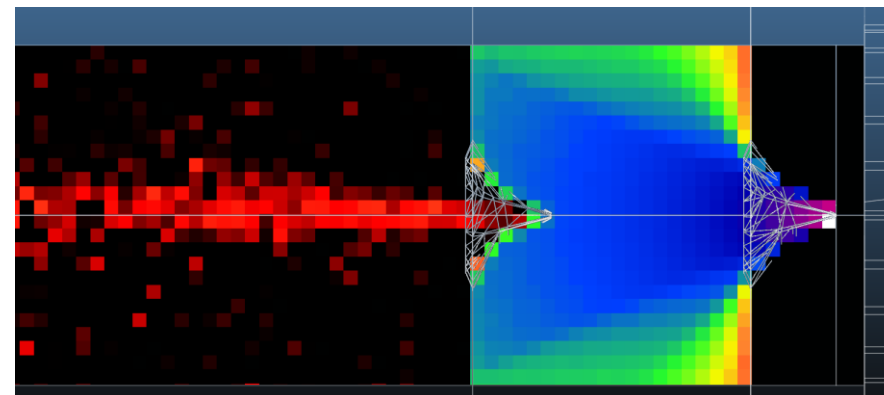
"Sticking" simulation



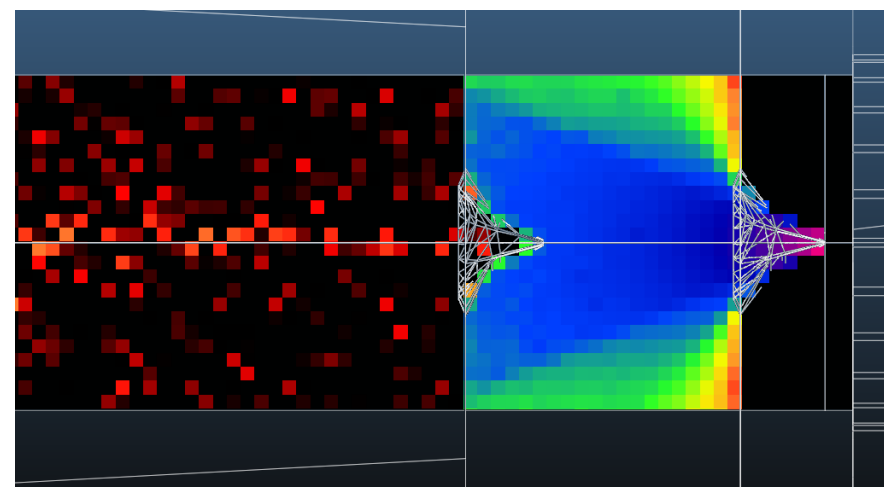
Uniform
(divergent)

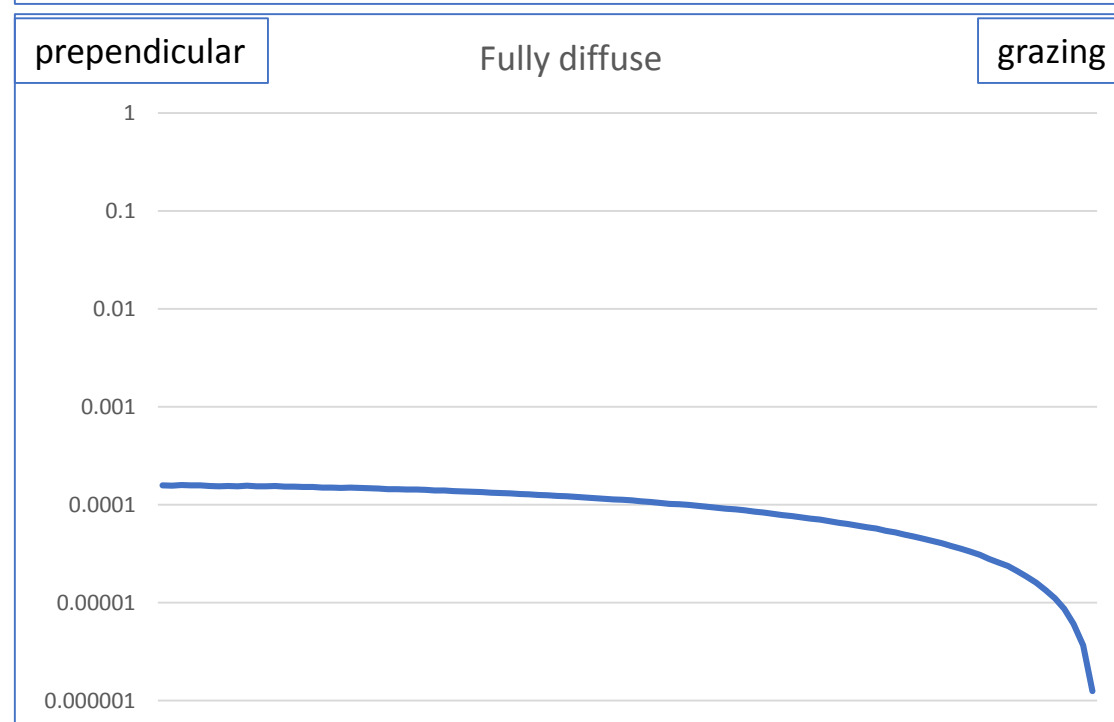
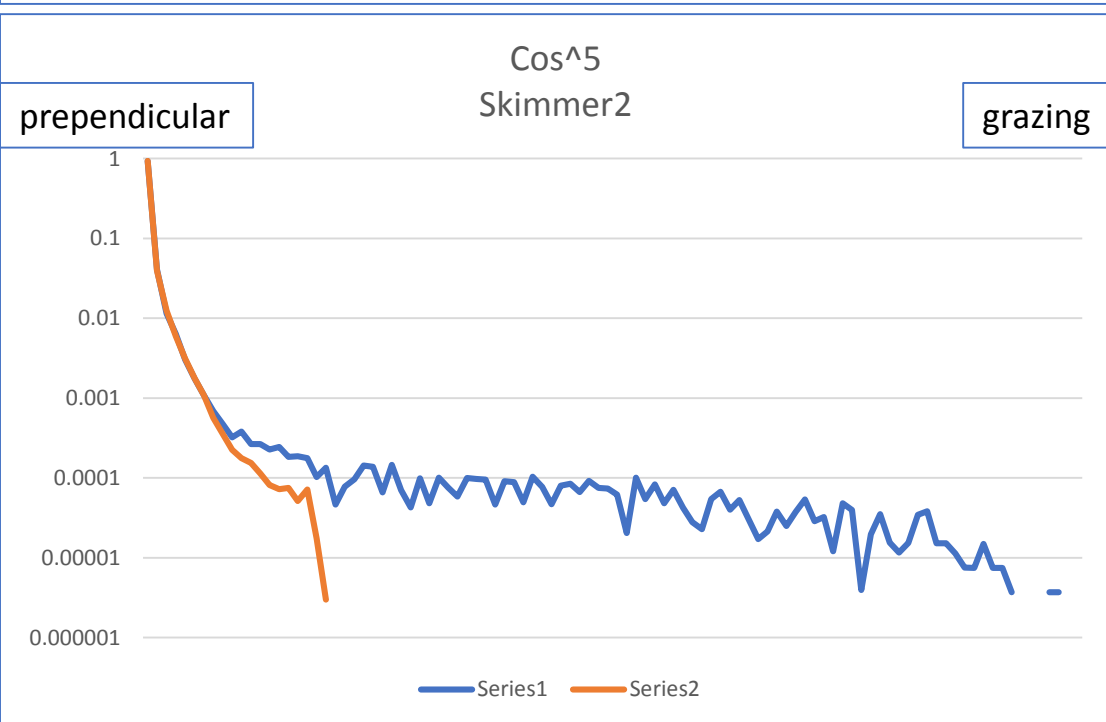
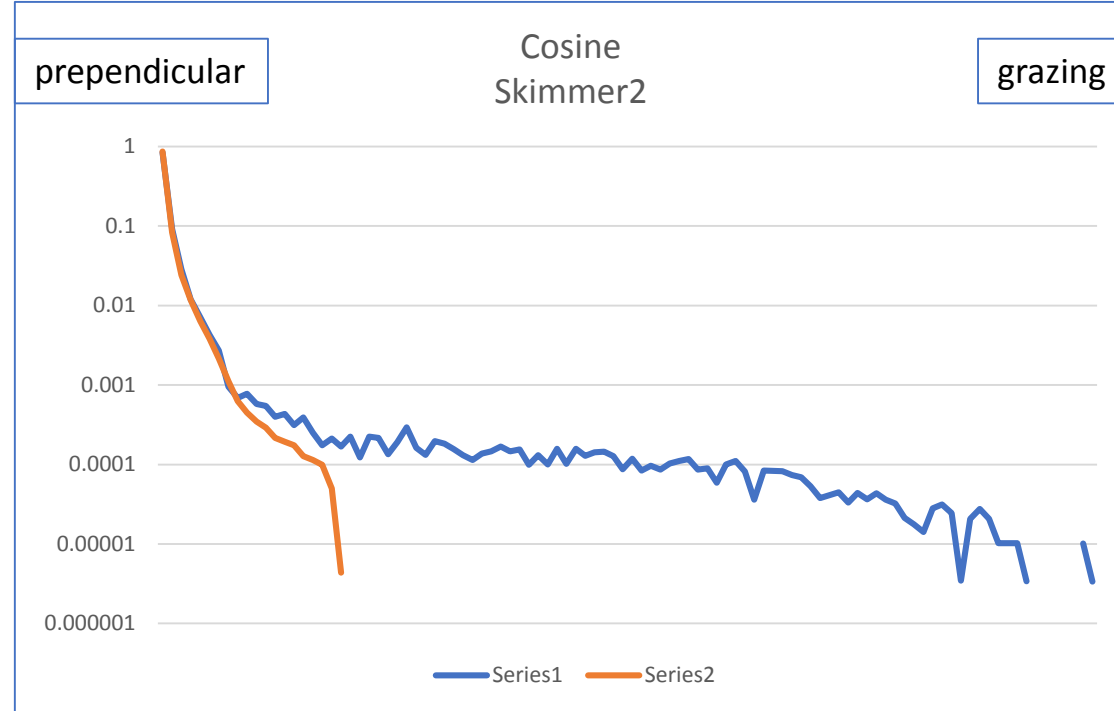
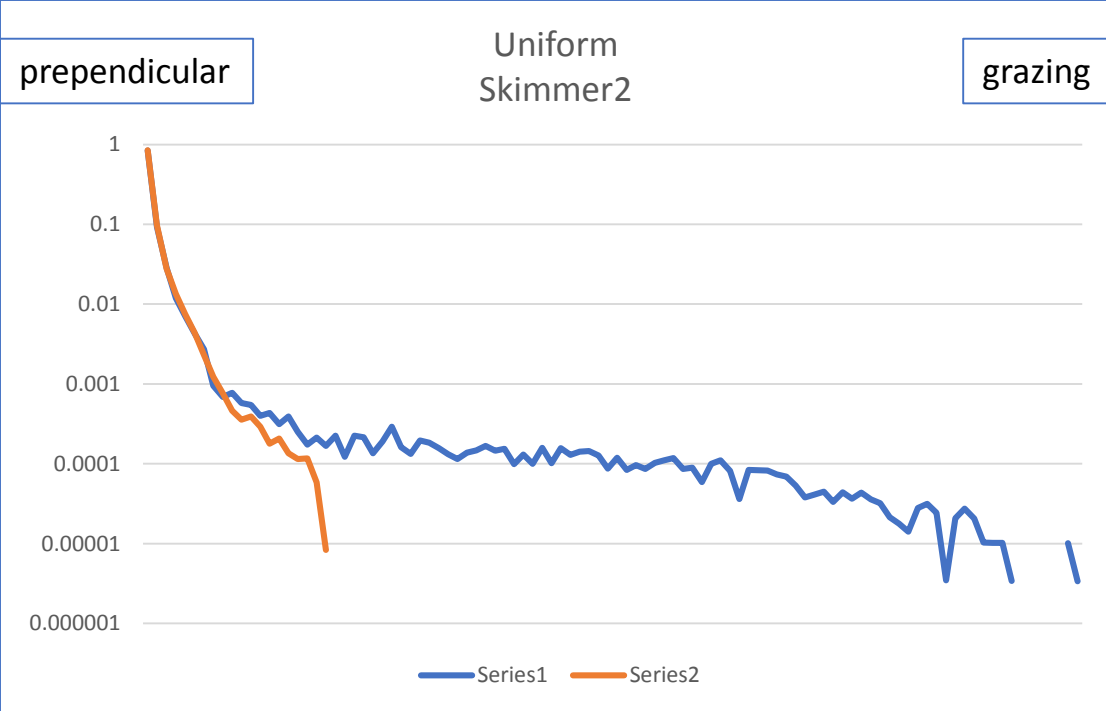


Cosine
(medium)

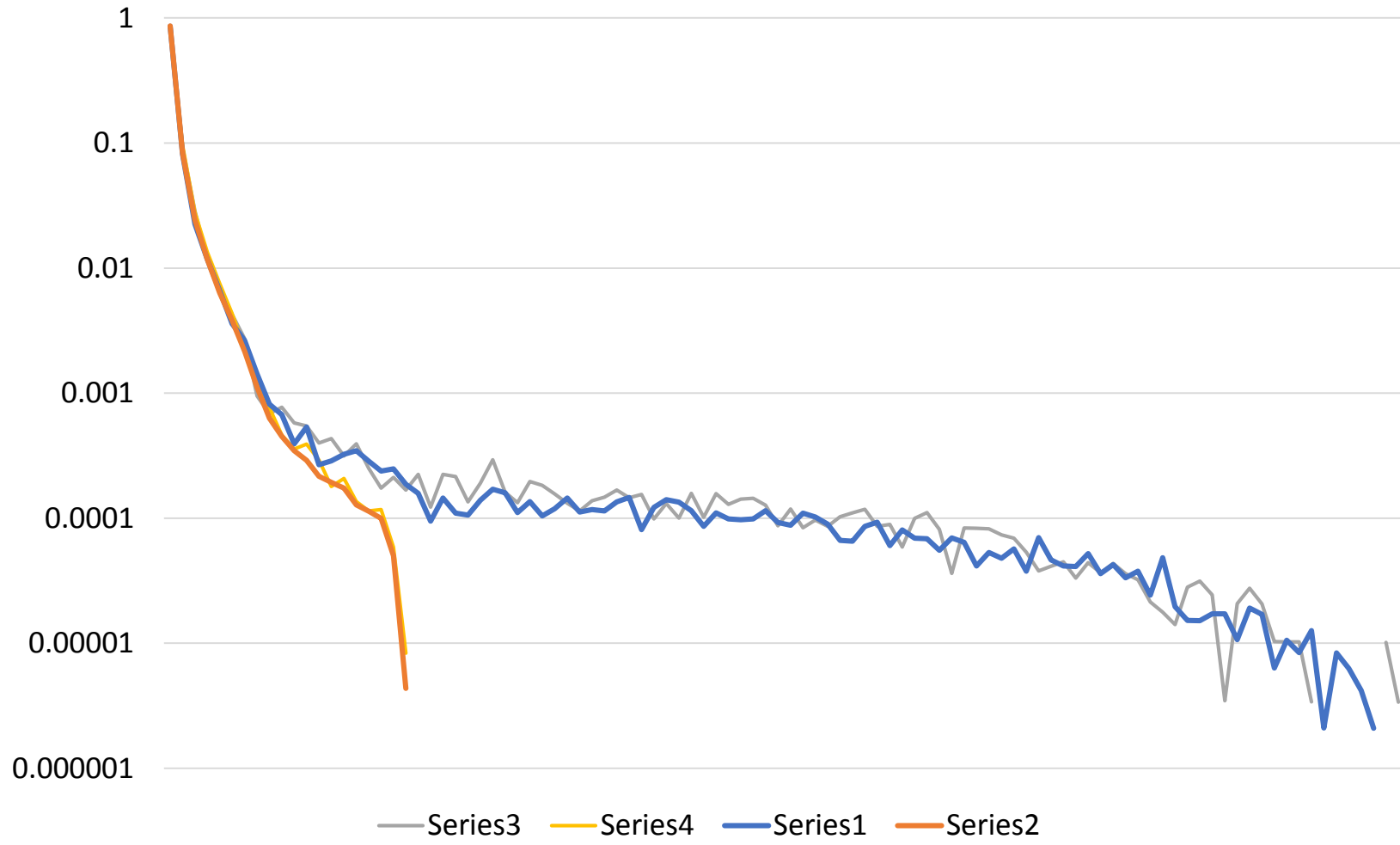


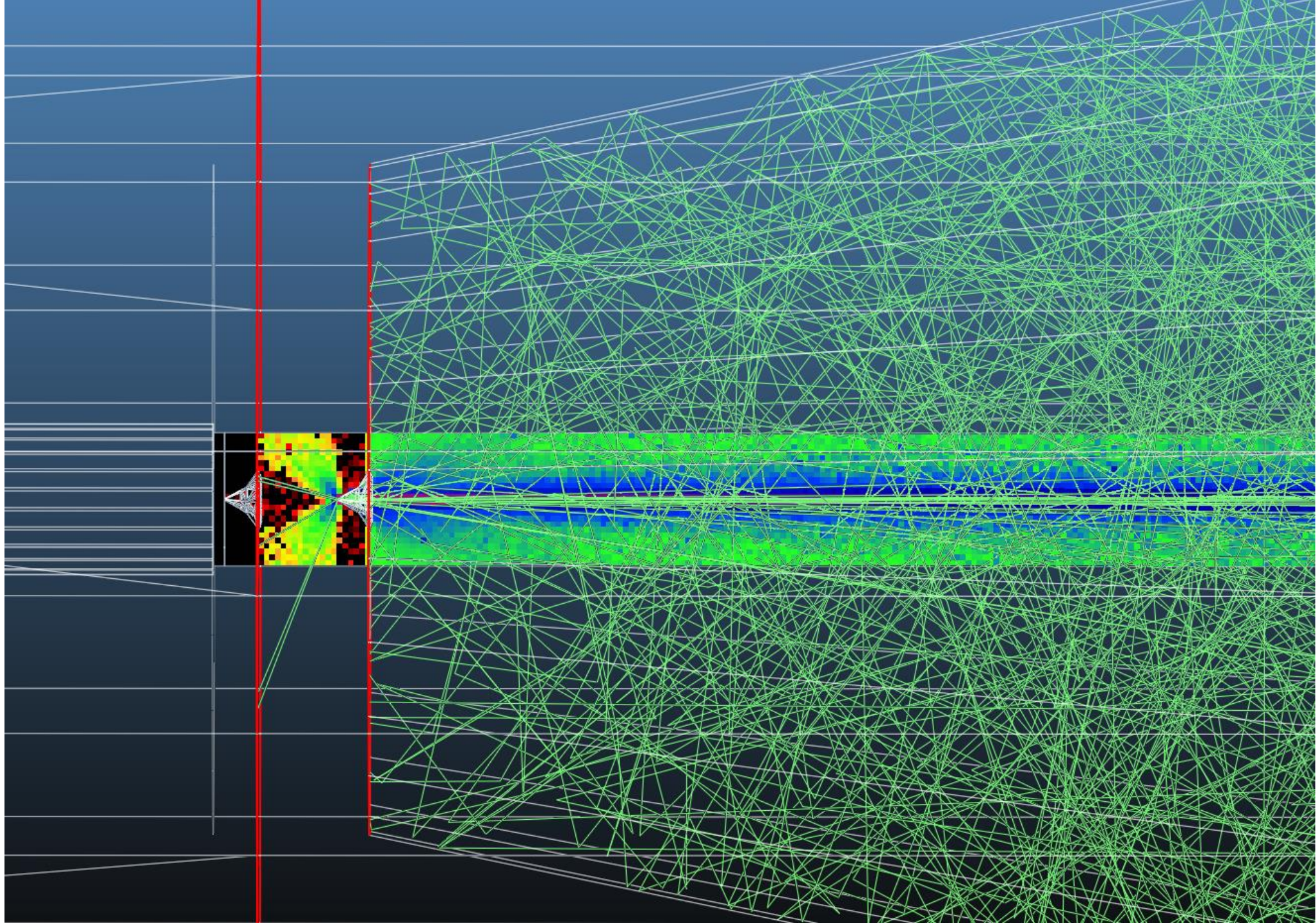
Cosine^5
(collimated)

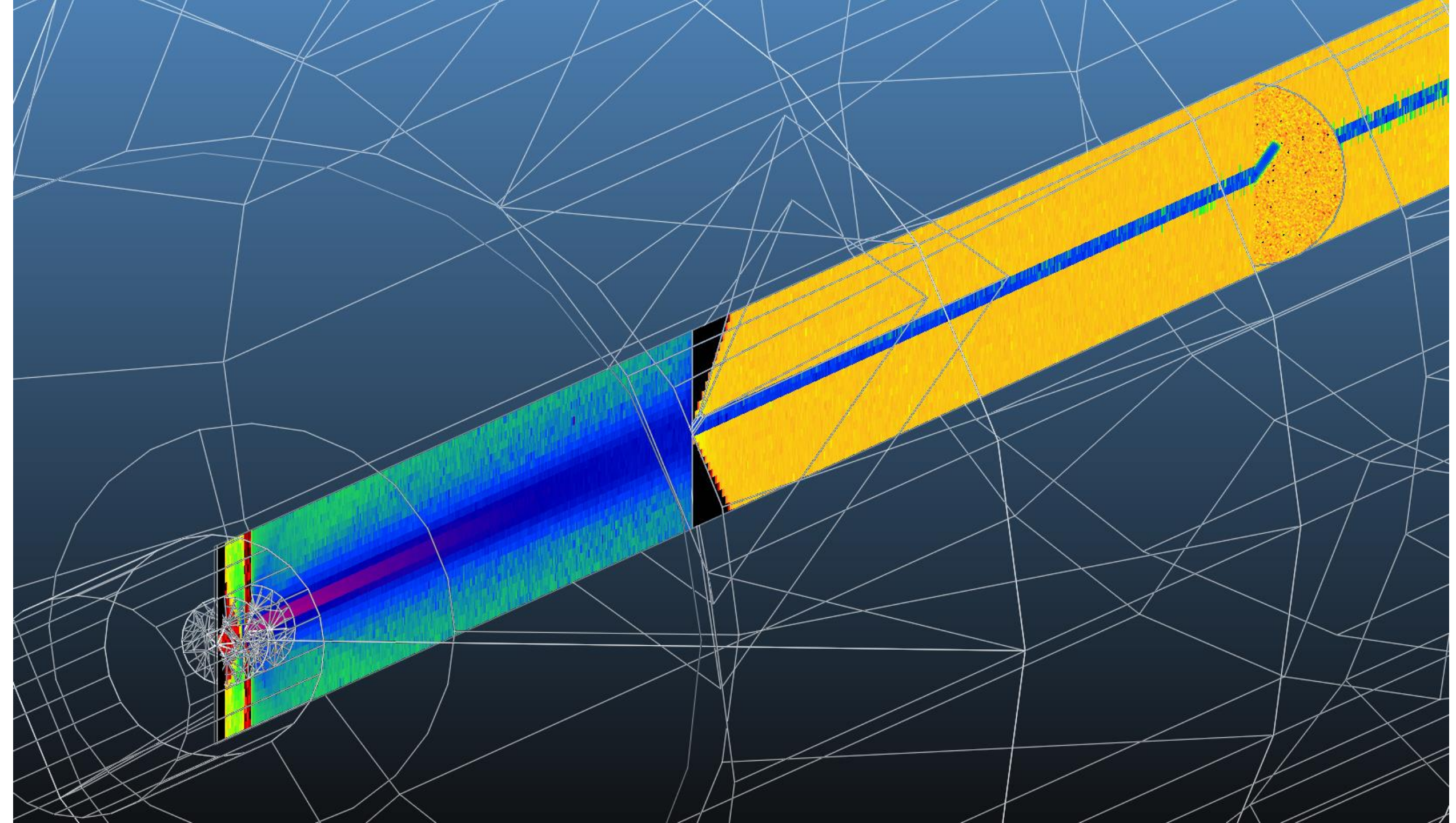


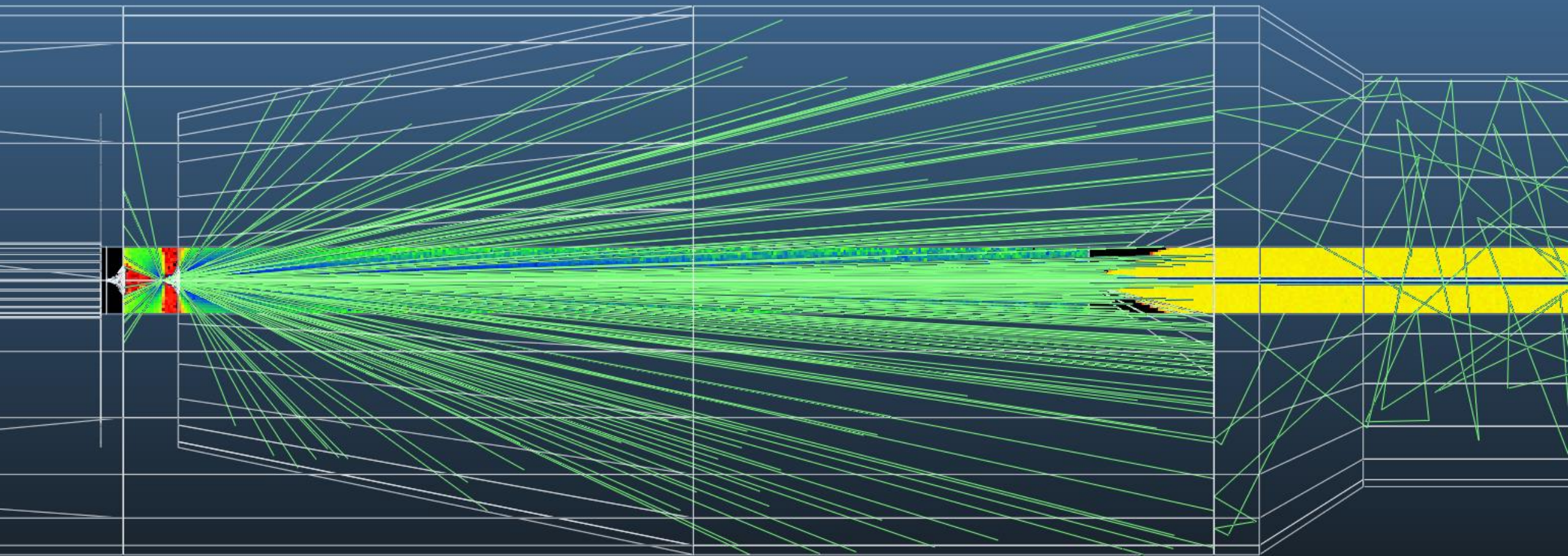


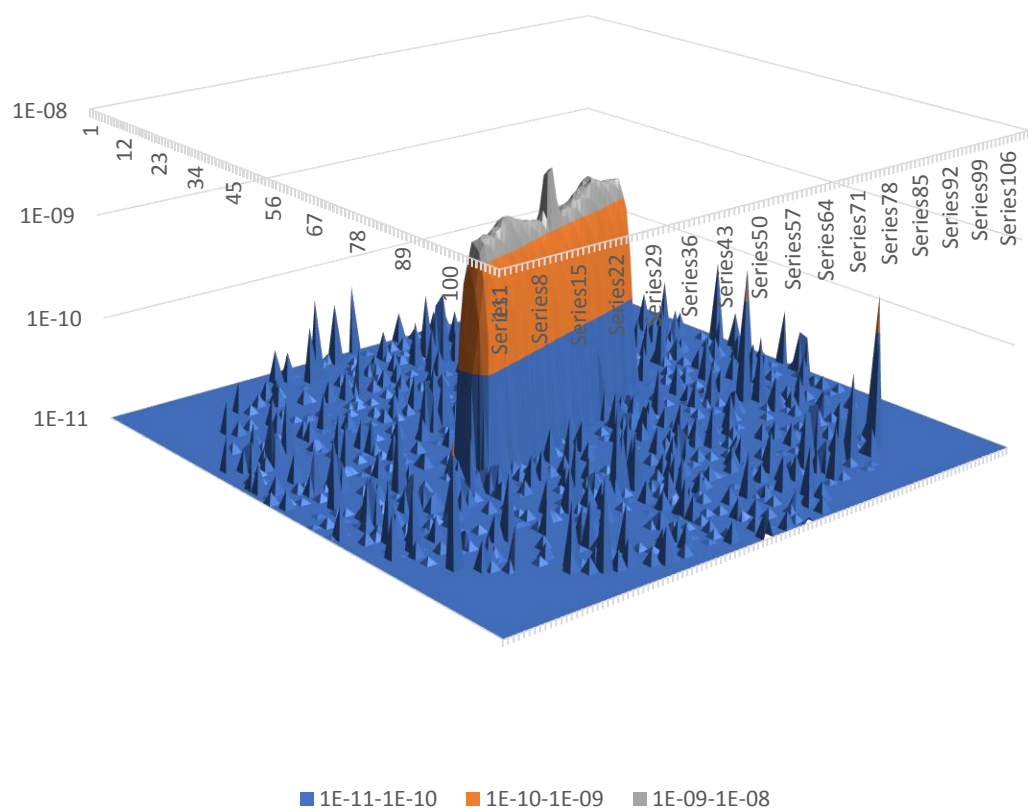
Uniform vs Cosine Skimmer2



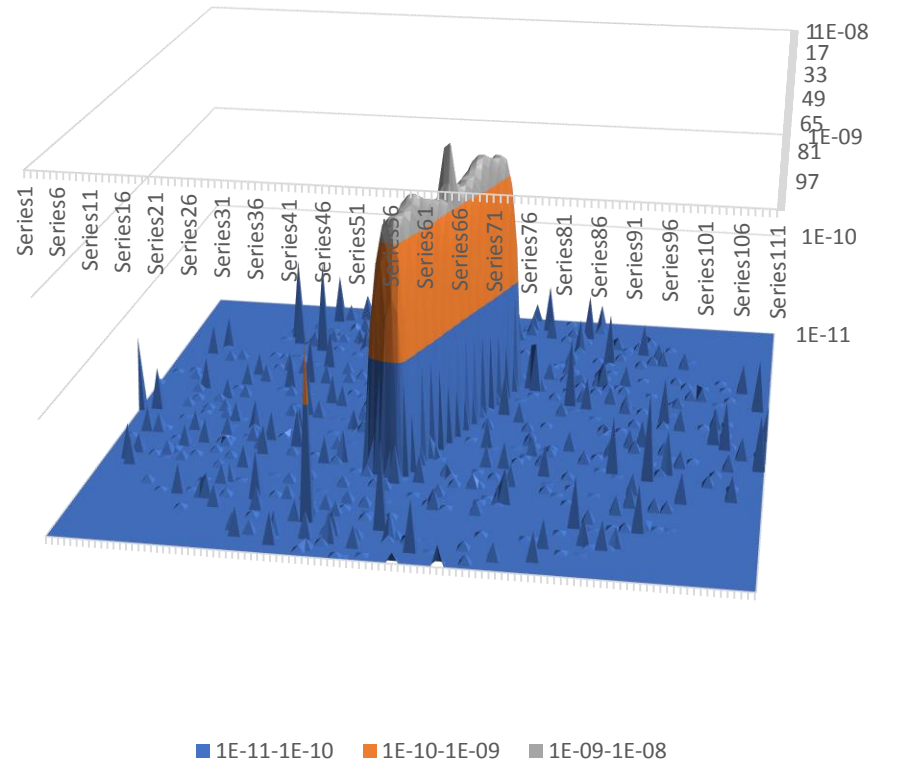






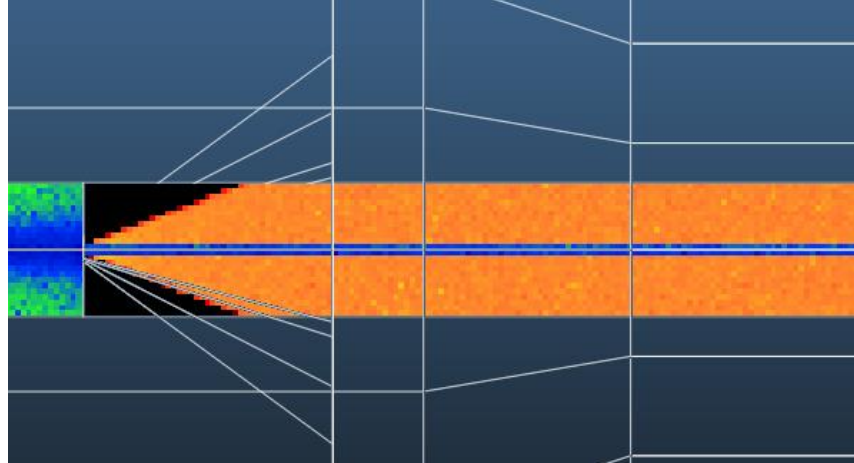


Normal simulation

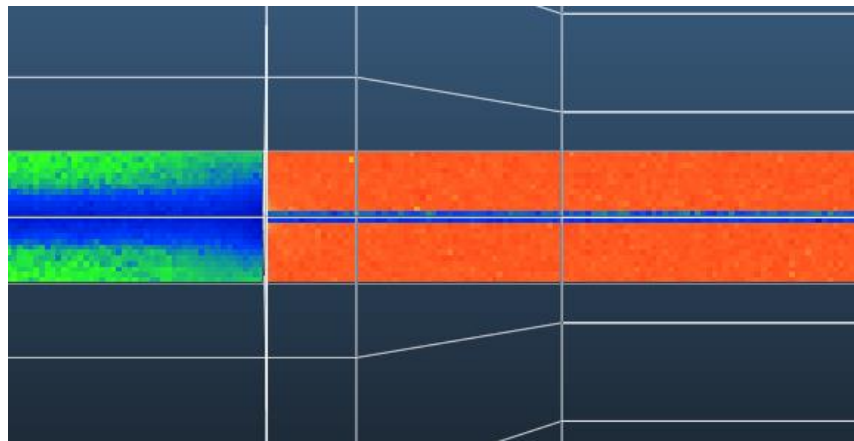


“Sticking” simulation

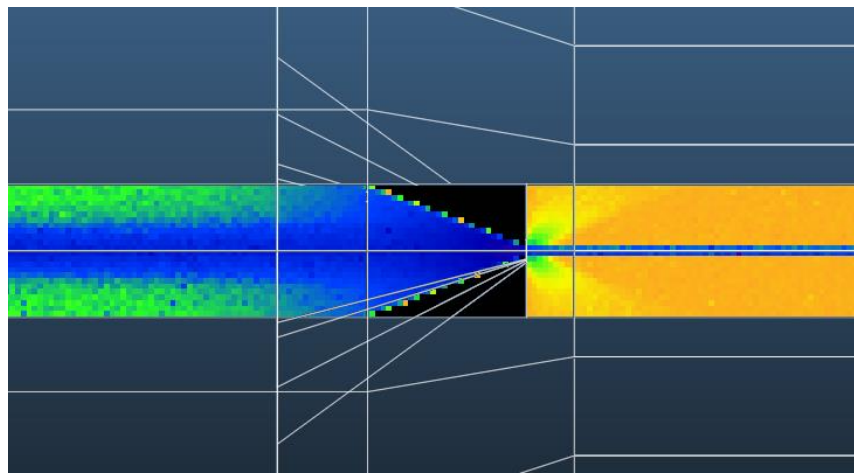
JET



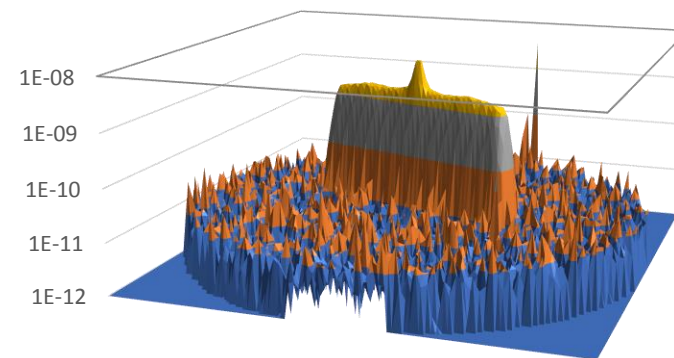
JET



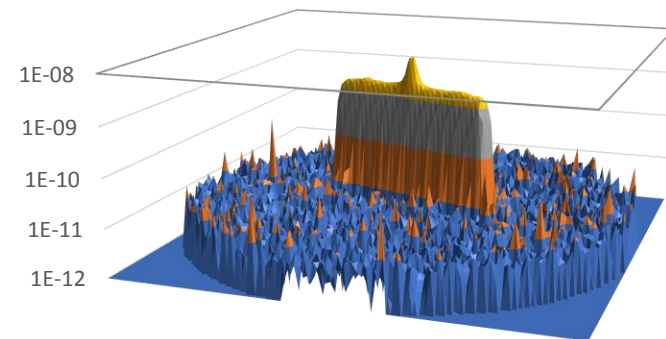
JET



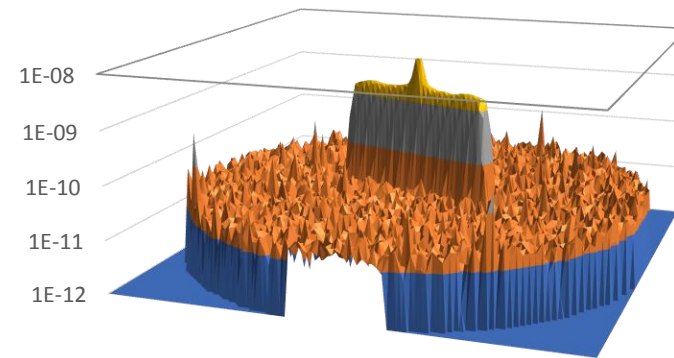
normal skimmer 3

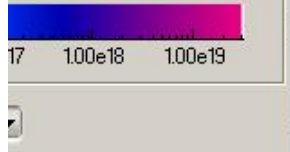


flat skimmer 3

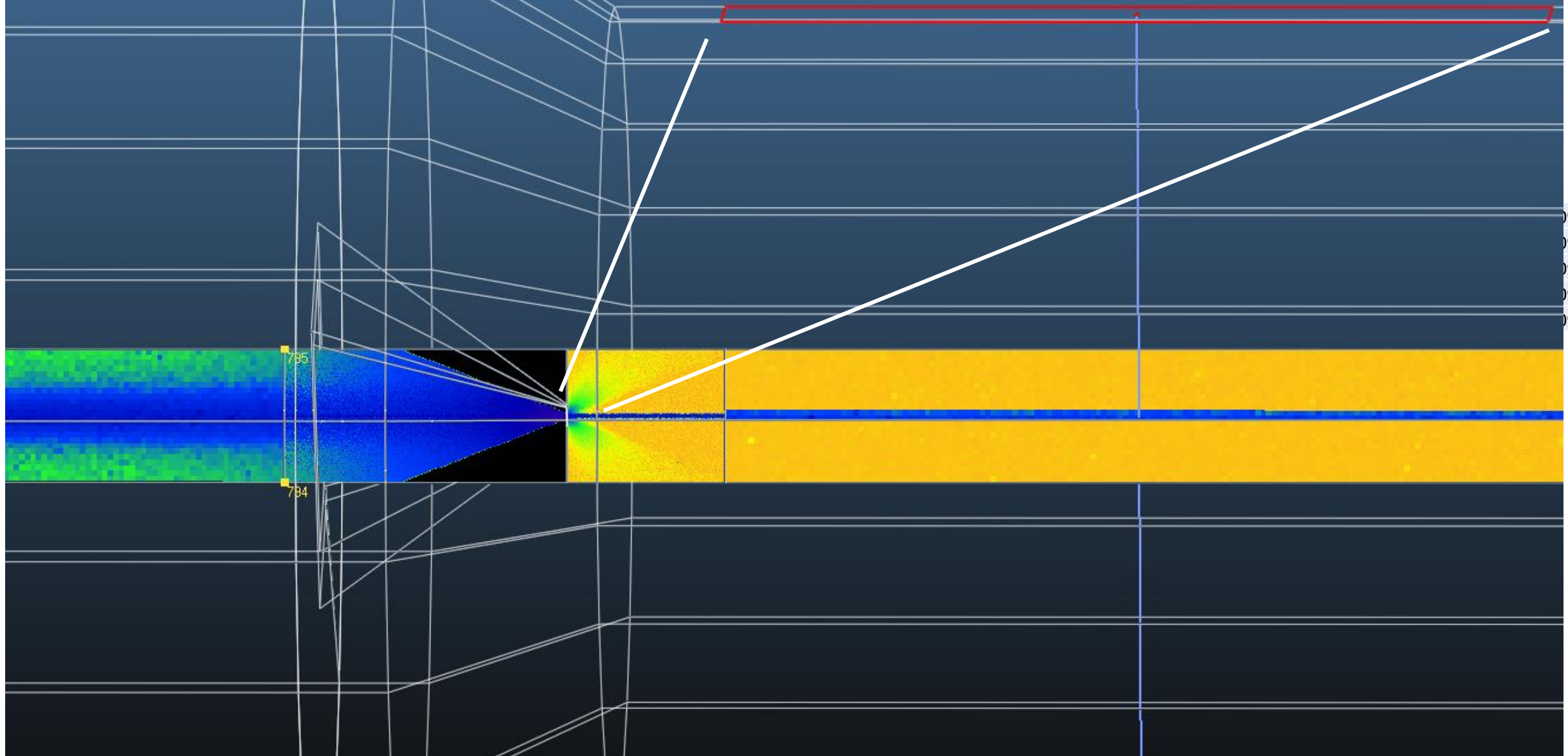


inverse skimmer 3





Aligned pump



735
734

09
09
09
09
09

	Background	Jet
Normal skimmer 3	6.79E-12	1.71E-09
Normal skimmer 3 + sticking	6.75E-12	1.73E-09
Flat skimmer	5.41E-12	1.72E-09
Inverse skimmer	1.69E-11	1.77E-09
Inverse + pump aligned	1.69E-11	1.78E-09

Conclusion

- (If sufficiently divergent) simulation not very sensitive to skimmer 1 divergence
- Optimal simulation method found (2 iterations)
- Flat skimmer 3 is the simplest -> recommended