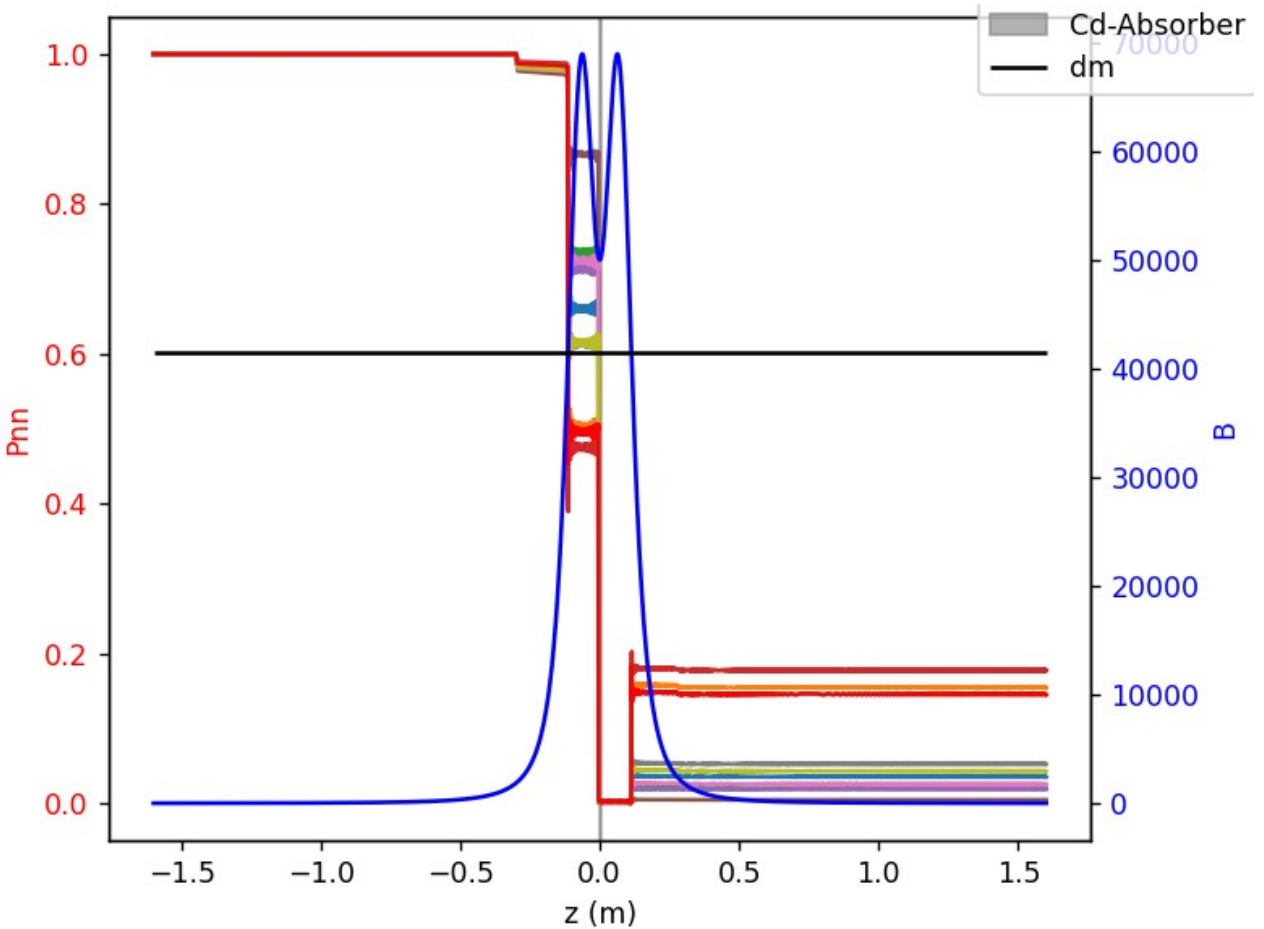
Simulation using Berezhiani's Analytical Function

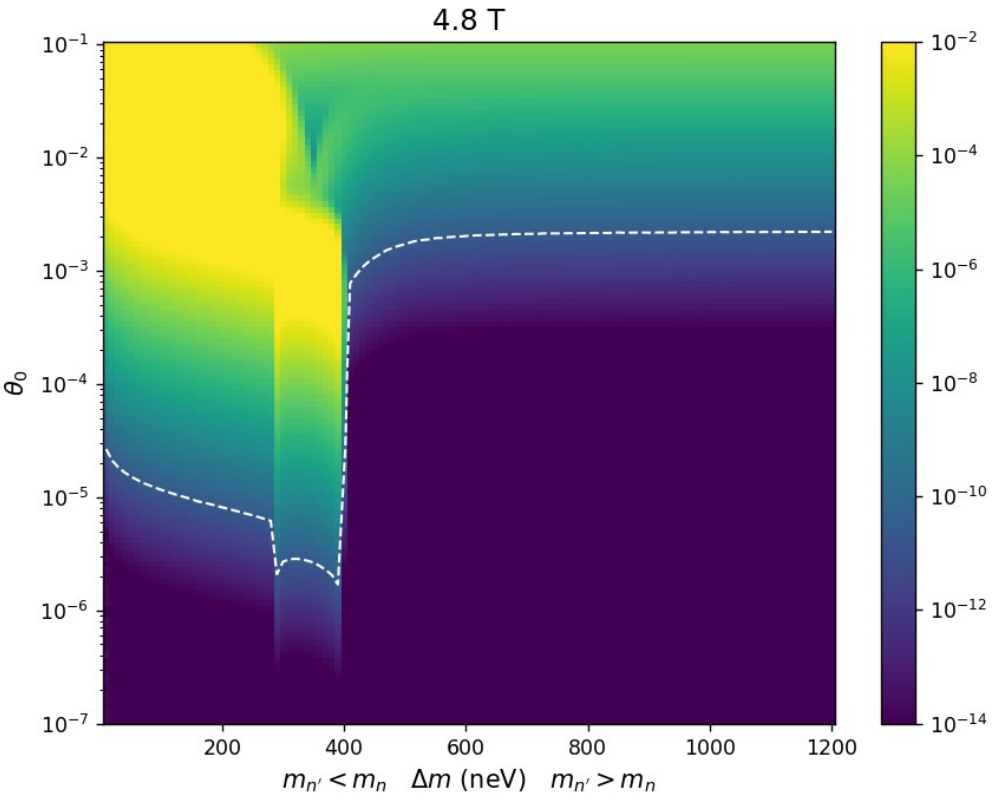
Nathan Whittington, UTK

Multiple Velocities

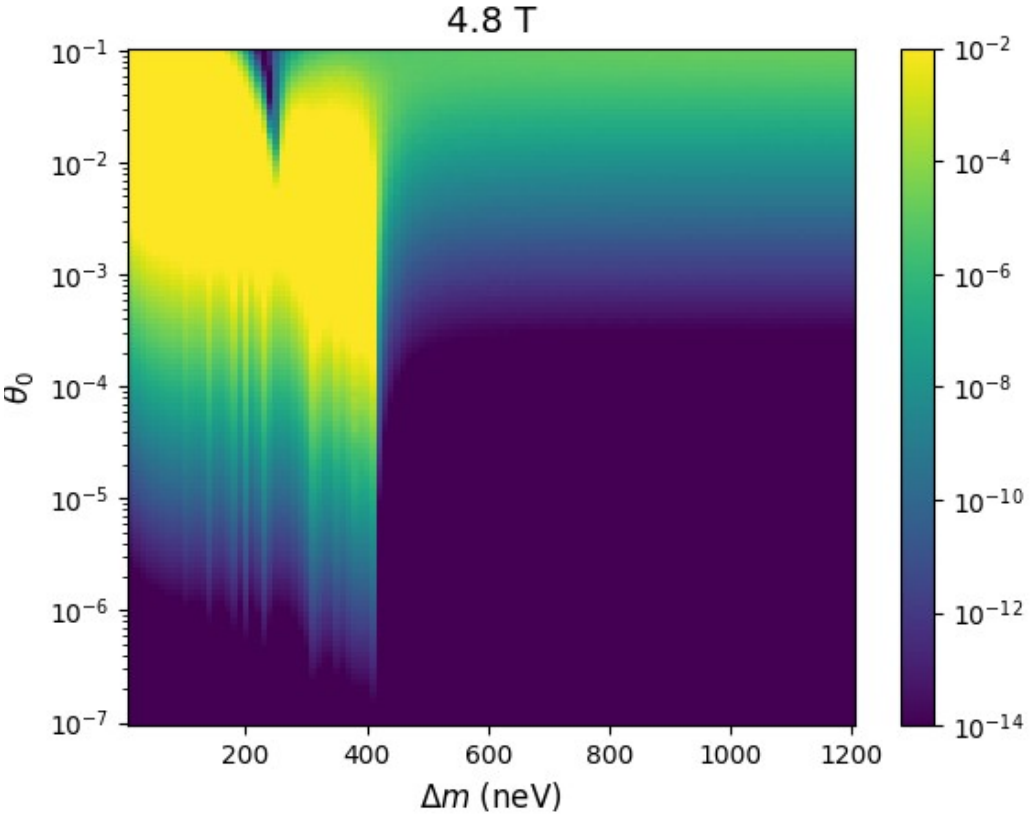


Cary's Results

30 micro, 2000 vel

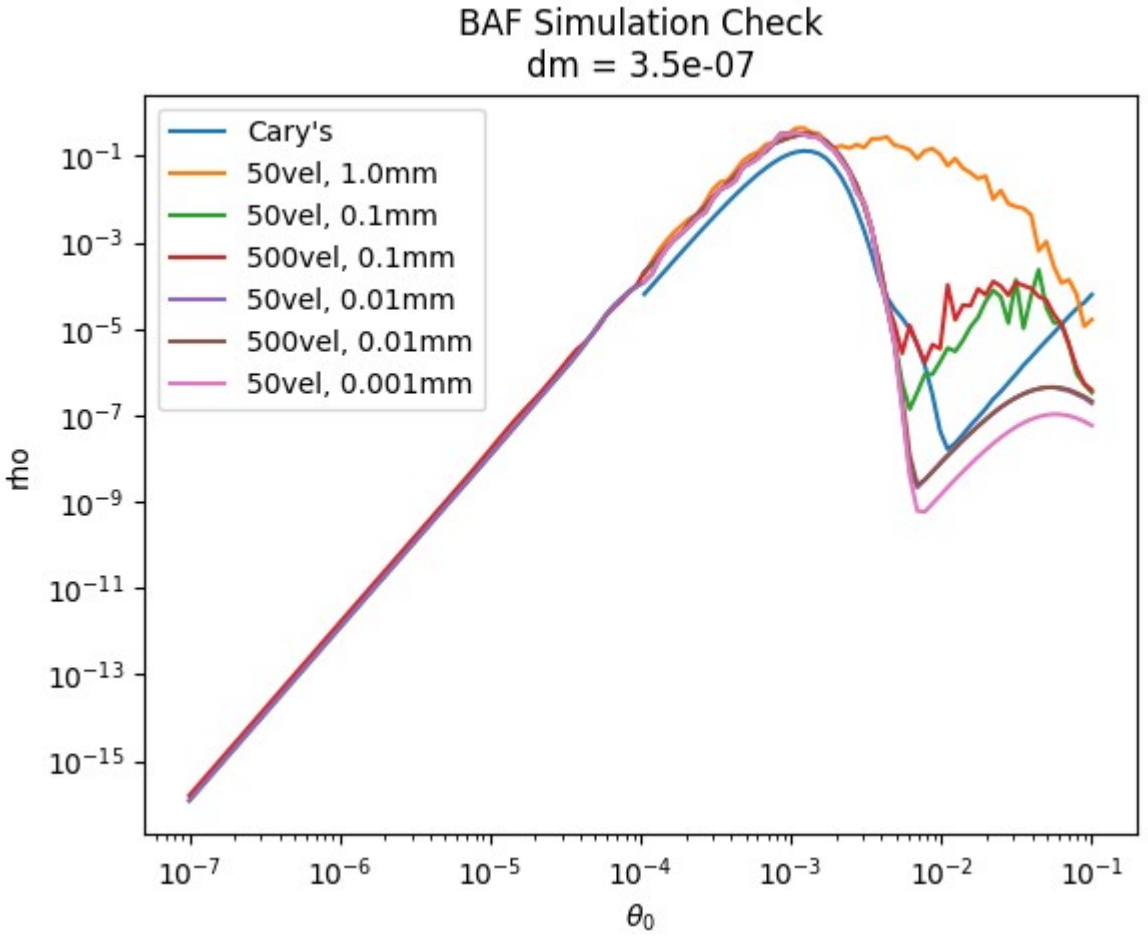


1mm step, 500 vel

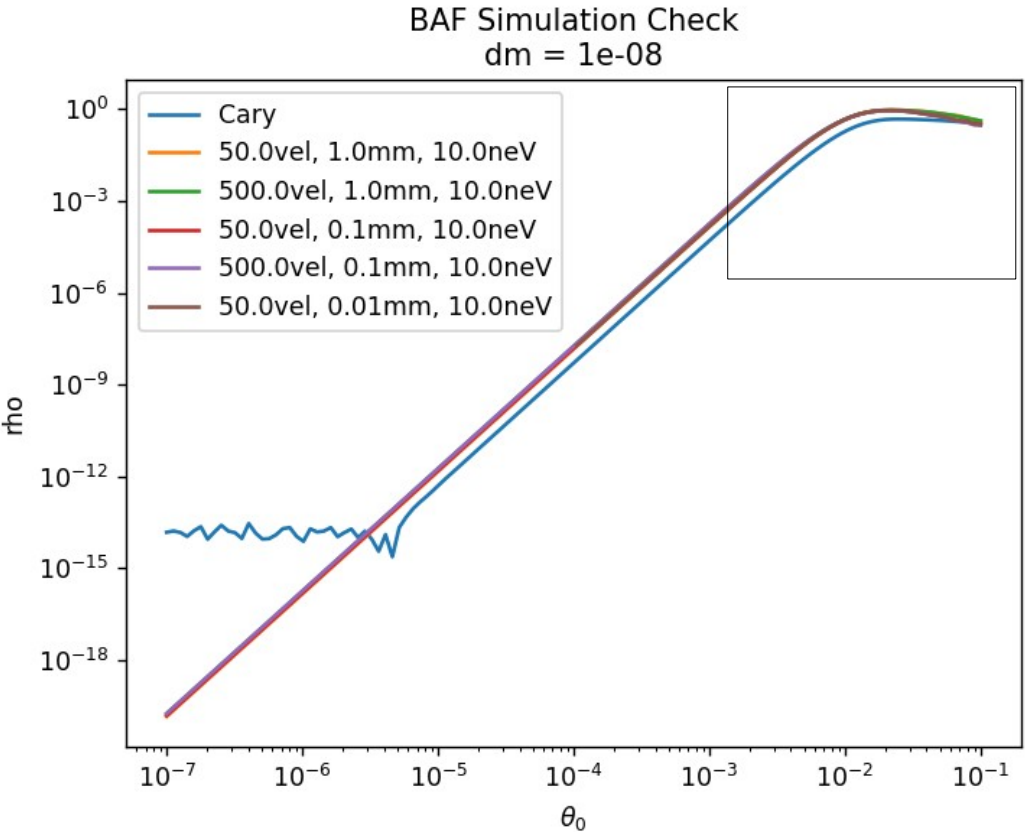


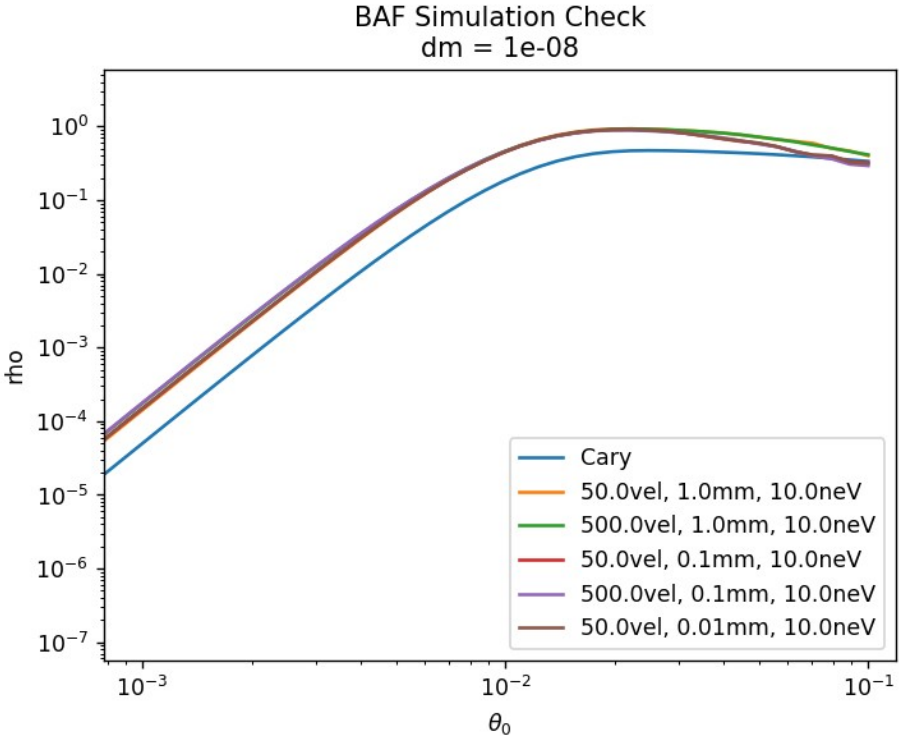
One dm (4 transitions)

- Becomes smooth at 0.01mm step size
- Step size is more important than number of velocities
- More Unstable when ∇B is large so perhaps it will work for low Δm



$$\Delta m = 10\,neV$$





- 0.1 and 0.01mm converge to a similar value

Full Simulation: 50 vel, 1mm step

- ~1 hour runtime on i7 8th gen cpu
- Smooth, but discontinuous
- $\Delta m < 10$ is mine
- 60 Δm values