

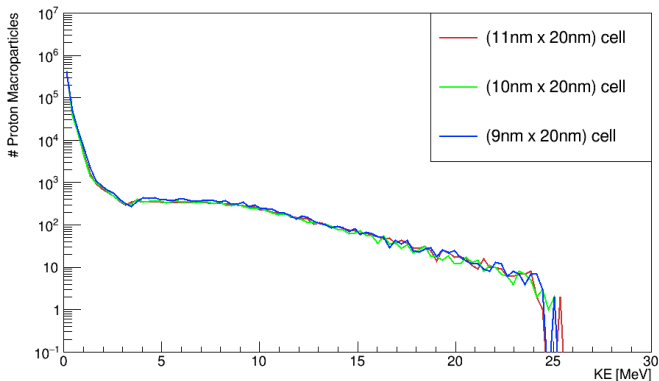
# LhARA Meeting

Hin Tung Lau

July 9, 2020

## Convergence – cell size (ppc= 484)

Smilei PPC - KE Comparison - Final Timestep

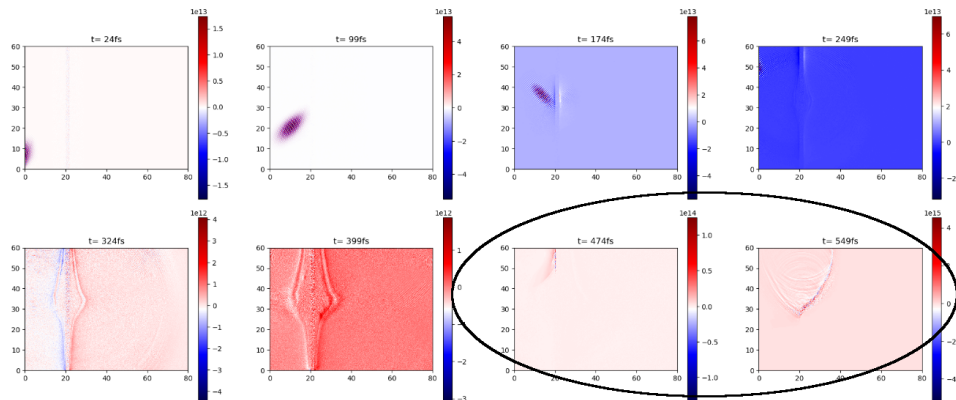


Seems convergent for the three configurations

	(11nm x 20nm)	(10nm x 20nm)	(9nm x 20nm)
Number Cells	7274 x 3072	8000 x 3072	8890 x 3072
Total Particles (per species)	270,430,160	297,176,000	329,865,360
Simulation Time	~17 hours	~20 hours	~22 hours

# Strange result when increasing cell size

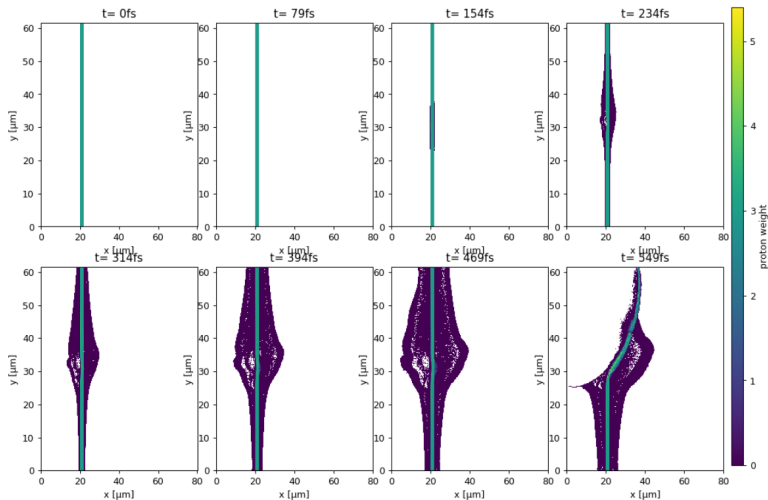
Ex\_ppc484\_2micron\_12nmCell



- Boundary reflections?

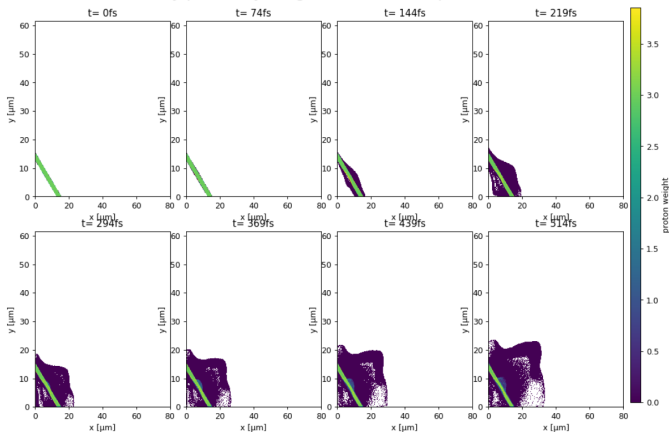
# Strange result when increasing cell size

proton xy weight (random foil species distribution)



# Rotating foil (incomplete)

Preliminary proton xy weight (random foil species distribution)



- ppc=484, 2 micron foil, (10nm x 20nm) cell size
- Still need to apply condition for particle tracking

