Analysis of loss of particles at simulations for different dts, in a case of a fixed n = 200,000

Frequency of particles in each time step, for dt = 0.001

Frequency of particles in each time step, for dt = 0.01

Frequency of particles in each time step, for dt = 0.1

Analysis over dt, to define it for benchmark

n = 250,000 particles & t_max=10

dt	Amount lost first time step	Amount in box last time step	(%) lost at the end
0.001	12,979	4,983	2.00
0.01	25,441	11,382	4.50
0.1	49,054	26,673	10.60