

## Mean Square Displacement

### System Parameters

- Collision Frequency ( $\nu$ ) = 0, 5
  - Time Step,  $\Delta t$  = 0.0005
  - $\nu \Delta t$  = 0, 0.05
  - Density ( $\rho$ ) = 0.8442
  - Number of Particles (N) = 108
  - Number of Steps = 10000
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- MSD sampling start time = 0
  - MSD sampling end time = 5000
  - MSD sampling time step = 5

