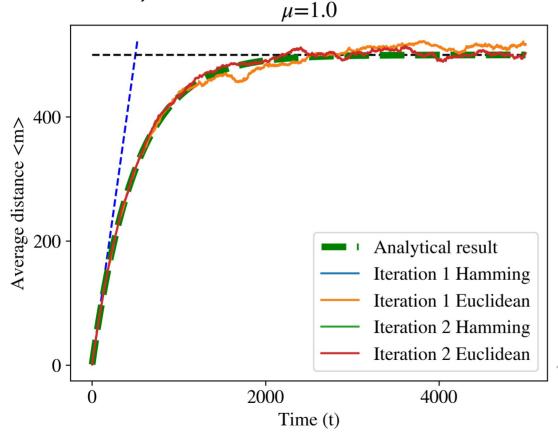
Origin (0000000....0)



$$m(t) = \lambda \left[1 - \left(1 - \frac{m_{(0)}}{\lambda}\right) e^{-\frac{\mu t}{\lambda}} \right]$$

$$L = 1000$$

$$\mu = 1.0$$

$$N = 1000$$

Origin (0000000....0)

$$\frac{dm}{dt} = (+1) \cdot p_{+} + (-1) \cdot p_{-} = \mu \left(1 - 2\frac{m}{L} \right)$$

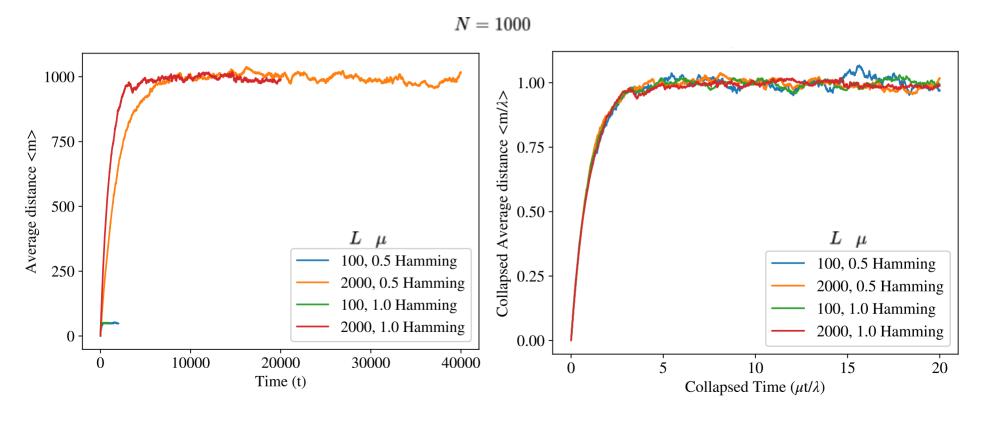
$$\lambda = \frac{L}{2} \quad \breve{m} = \frac{m}{\lambda} \quad \tau = \frac{\mu t}{\lambda}$$

$$\frac{d\breve{m}}{d\tau} = 1 - \breve{m} \qquad \breve{m}(t) = 1 - (1 - \breve{m}_{(0)})e^{-\tau}$$

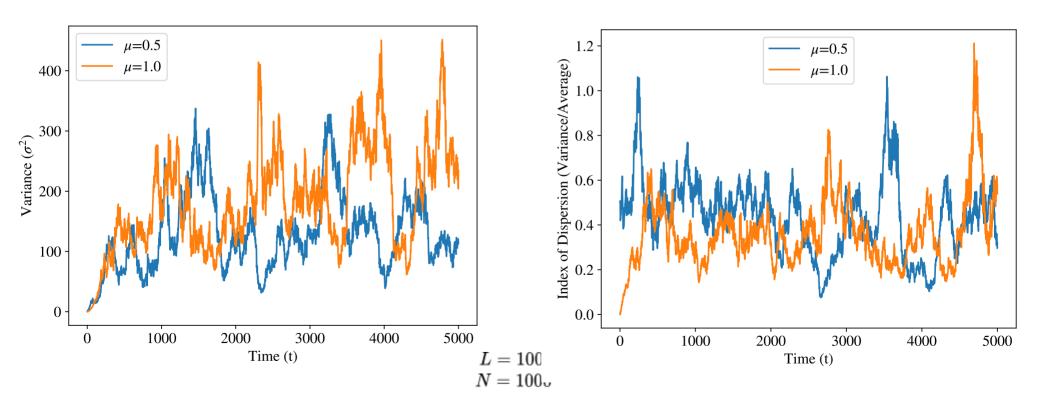
$$m(t) = \lambda \left[1 - \left(1 - \frac{m_{(0)}}{\lambda}\right) e^{-\frac{\mu t}{\lambda}} \right]$$

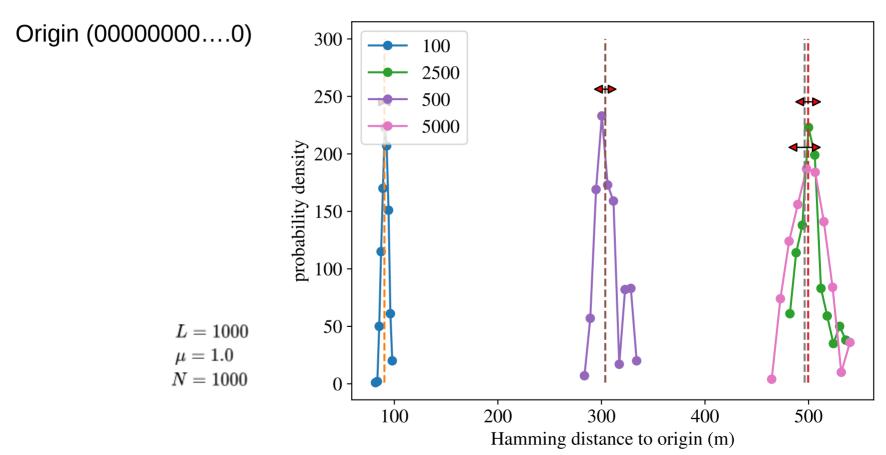
$$\lim_{t \to \infty} m(t) = \lambda \qquad \lim_{t \to 0} m(t) = m_{(0)} + \left(1 - \frac{m_{(0)}}{\lambda}\right) \frac{\mu t}{\lambda}$$

Origin (0000000....0)

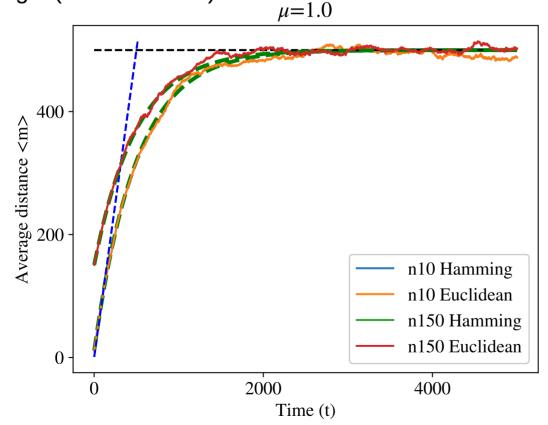


Origin (00000000....0)





Origin (1111100...000)



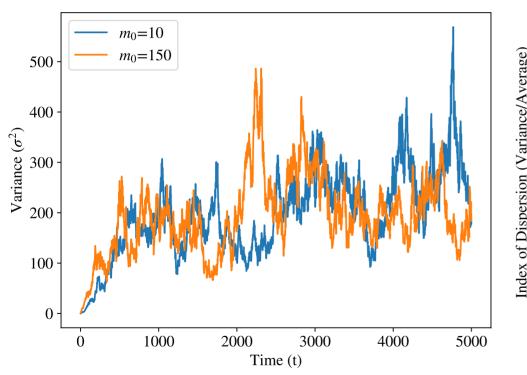
$$m(t) = \lambda \left[1 - \left(1 - \frac{m_{(0)}}{\lambda}\right) e^{-\frac{\mu t}{\lambda}} \right]$$

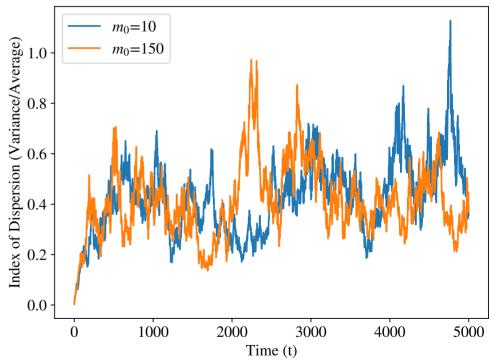
$$L = 1000$$

$$\mu = 1.0$$

$$N = 1000$$

Origin (1111100...000)





Origin (1111100...000)

