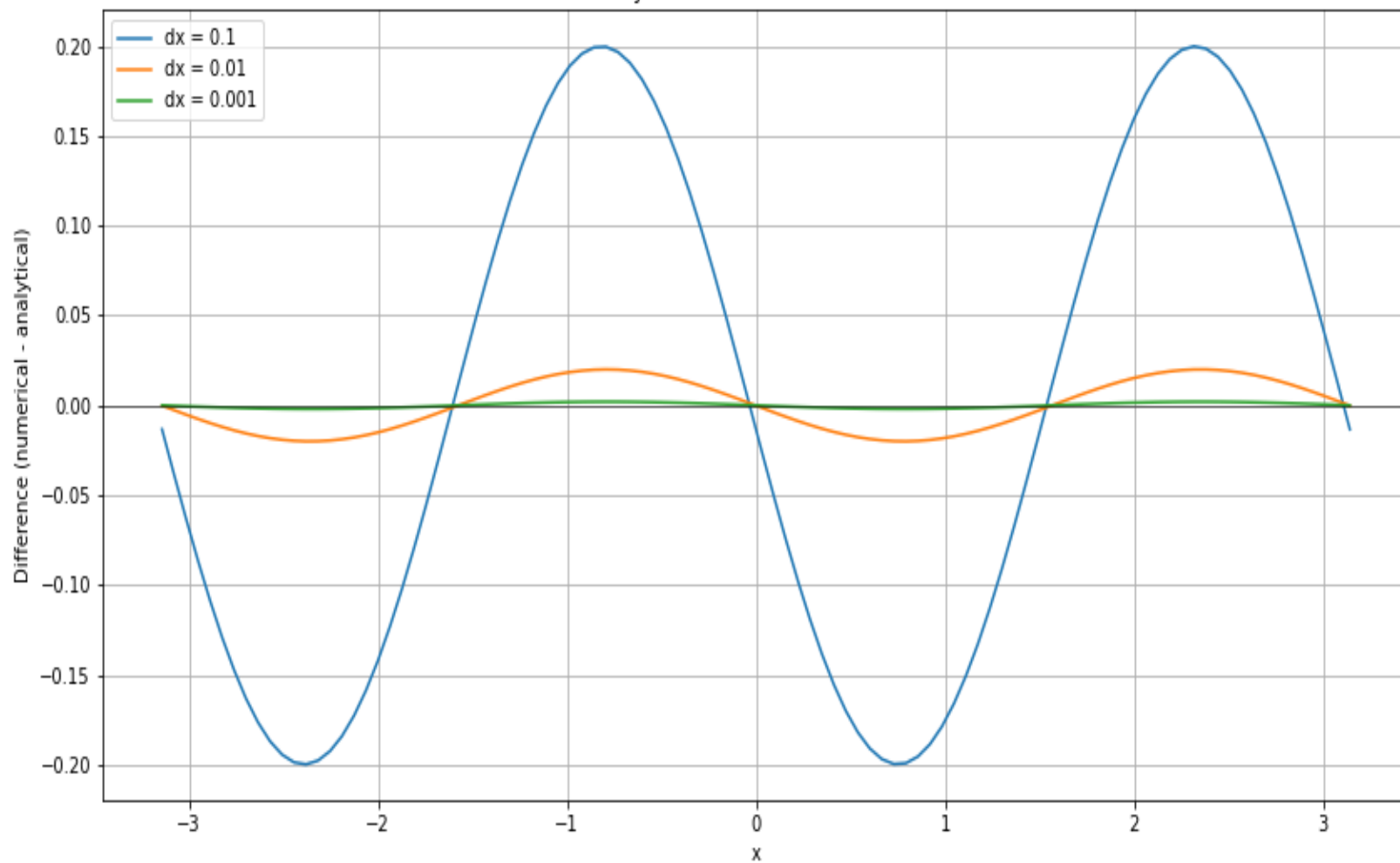
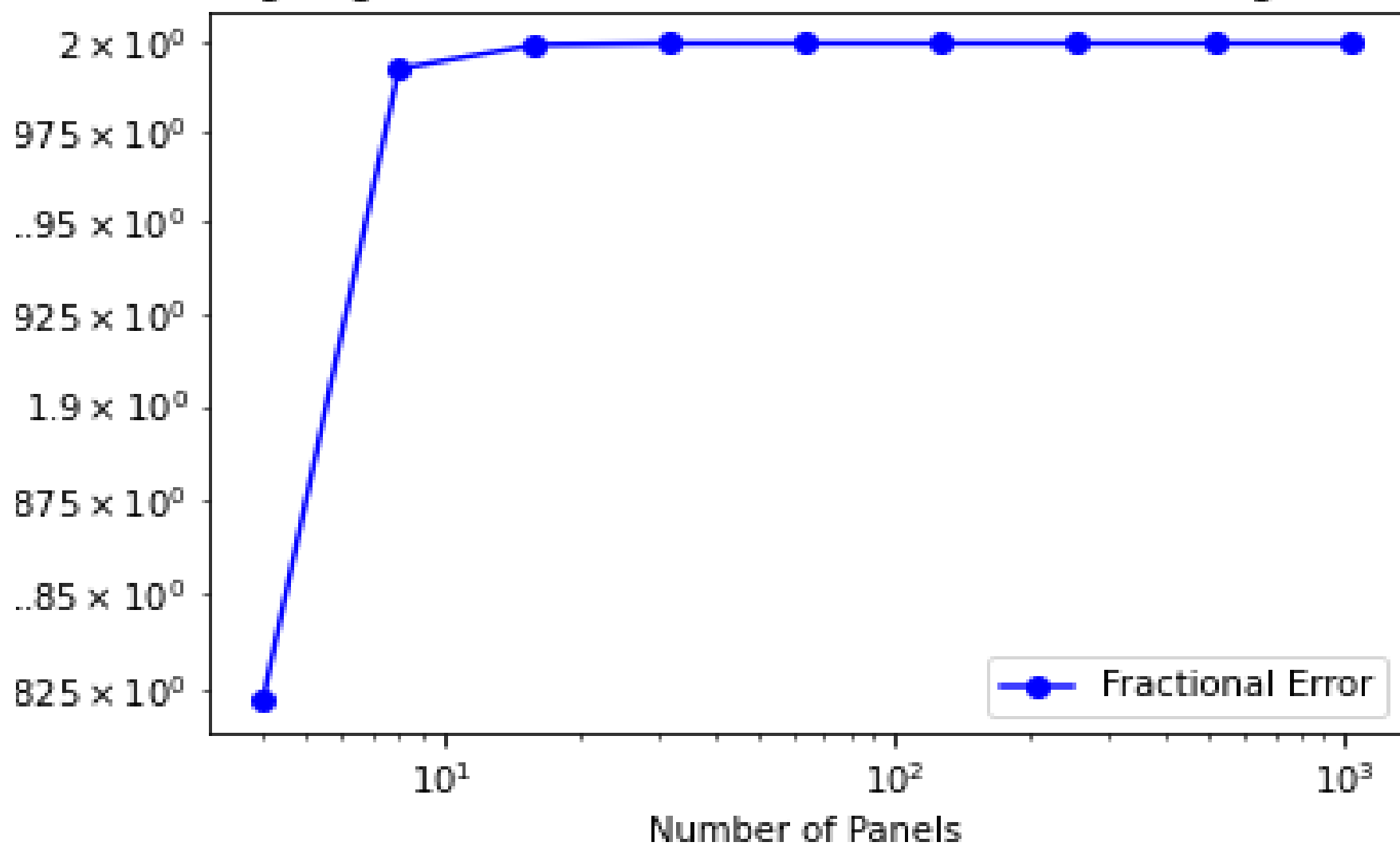


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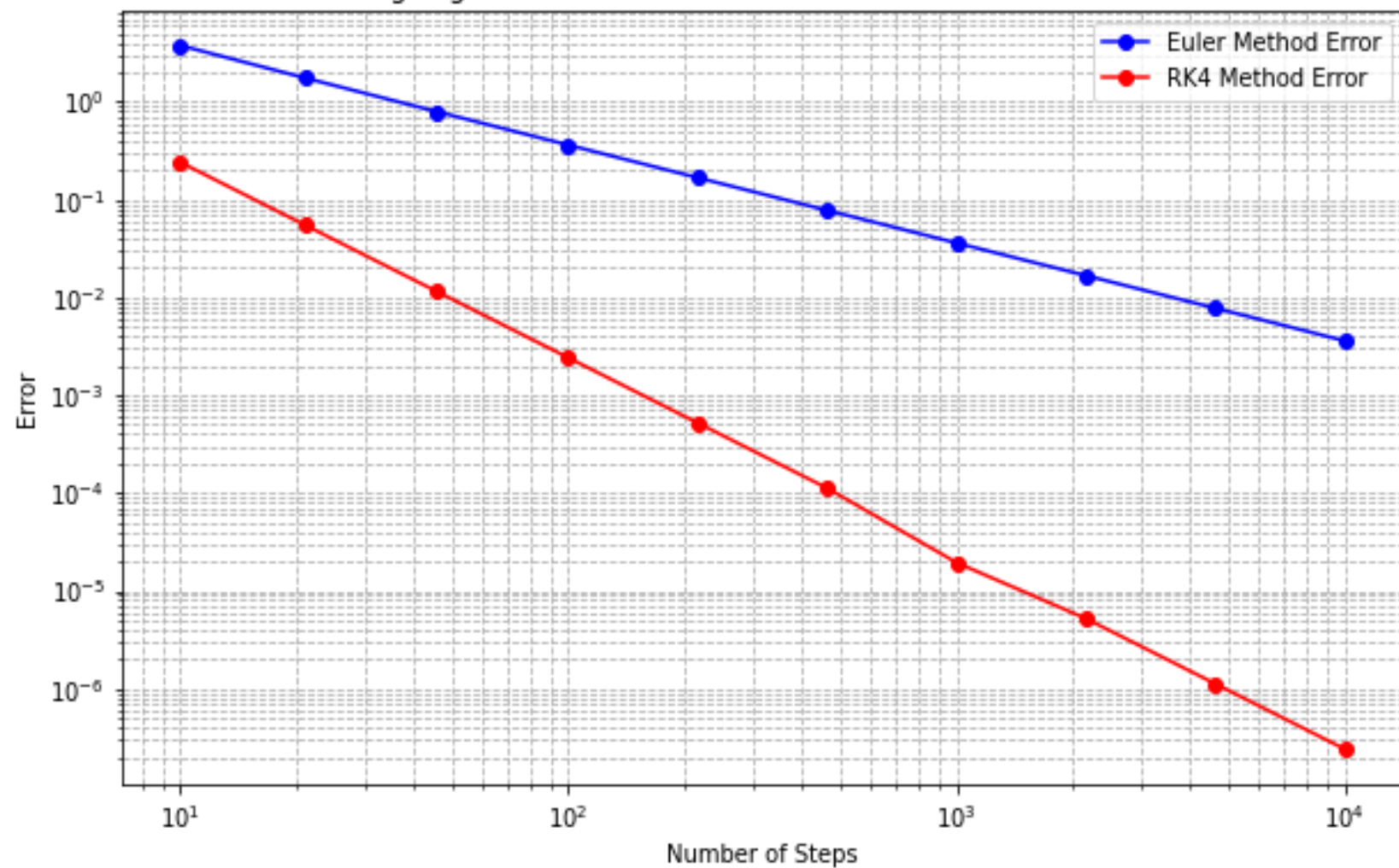
Difference Between Analytical and Numerical Derivatives of  $f(x) = \sin(2x)$



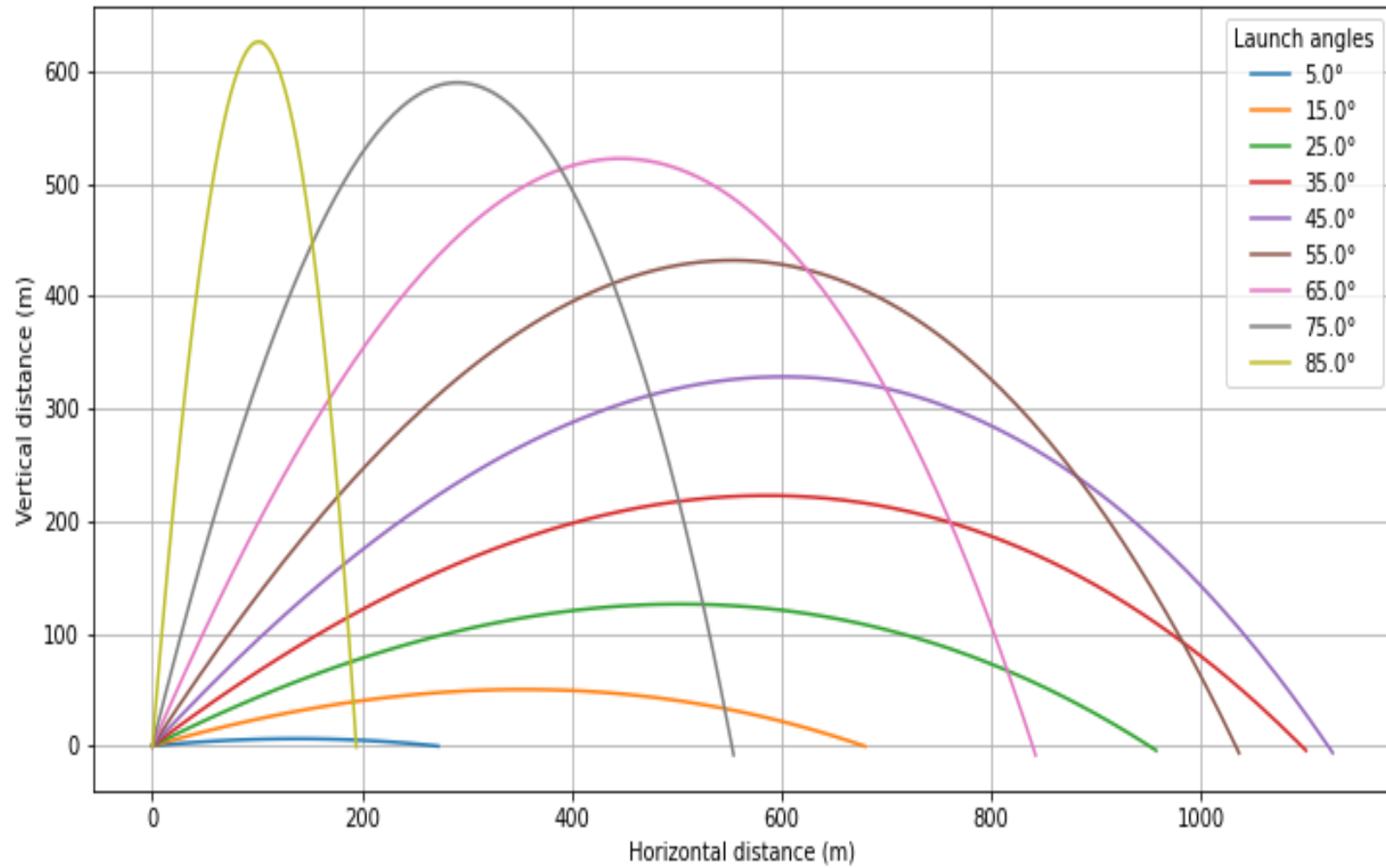
Log-Log Plot of Fractional Error in Numerical Integration



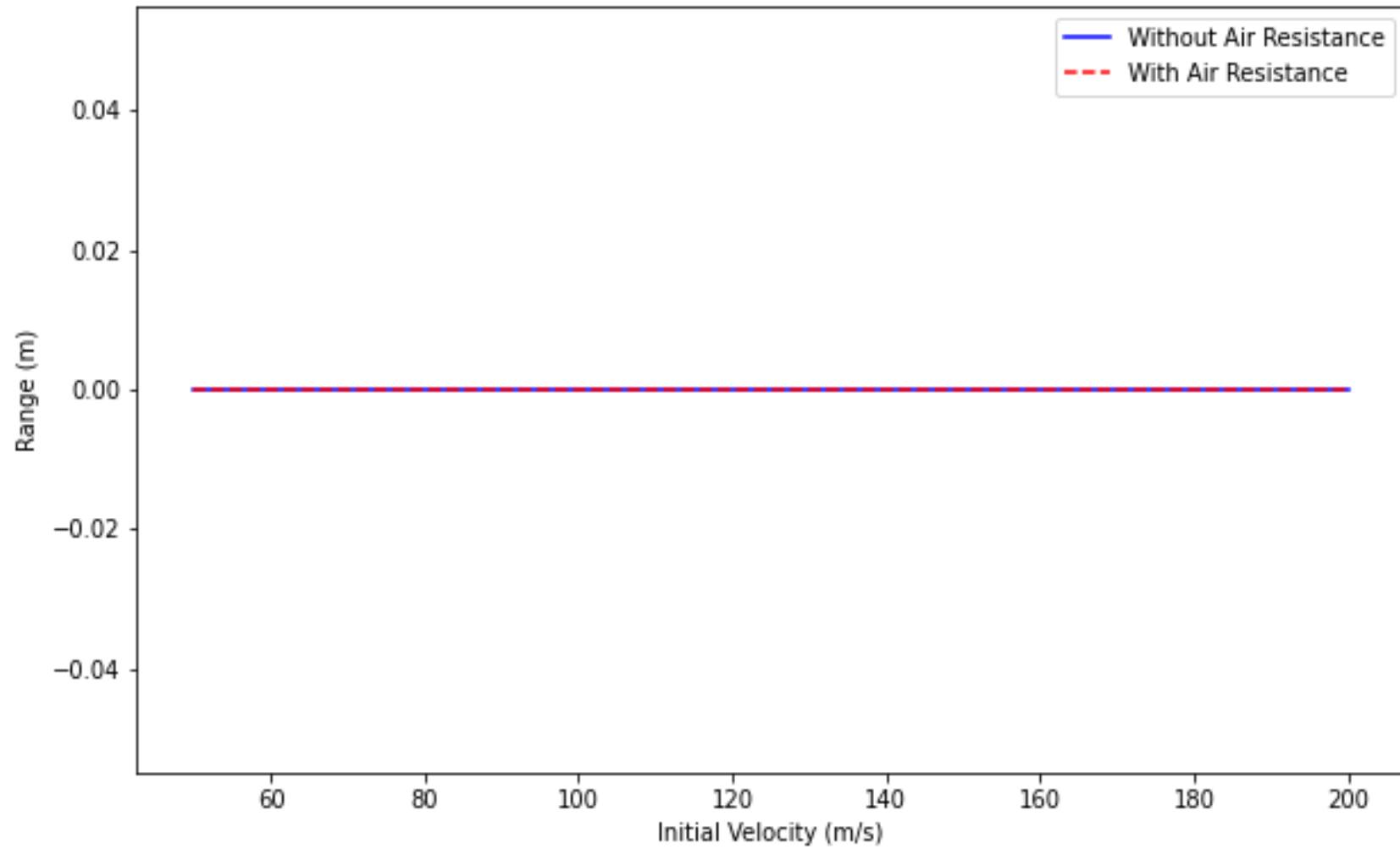
Log-Log Plot of Numerical Errors in Euler and RK4 Methods



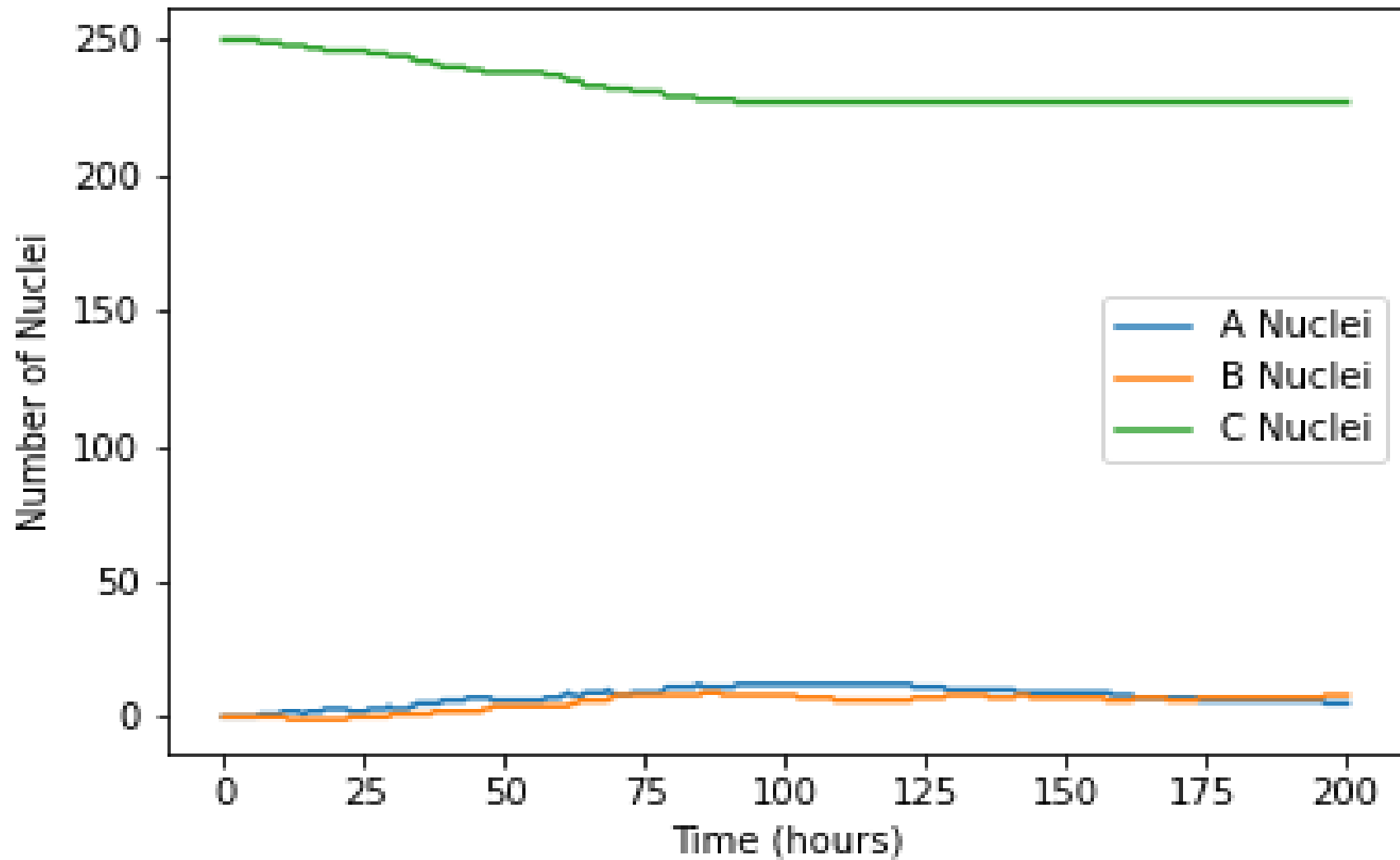
Trajectories of a Cannonball for Various Initial Angles



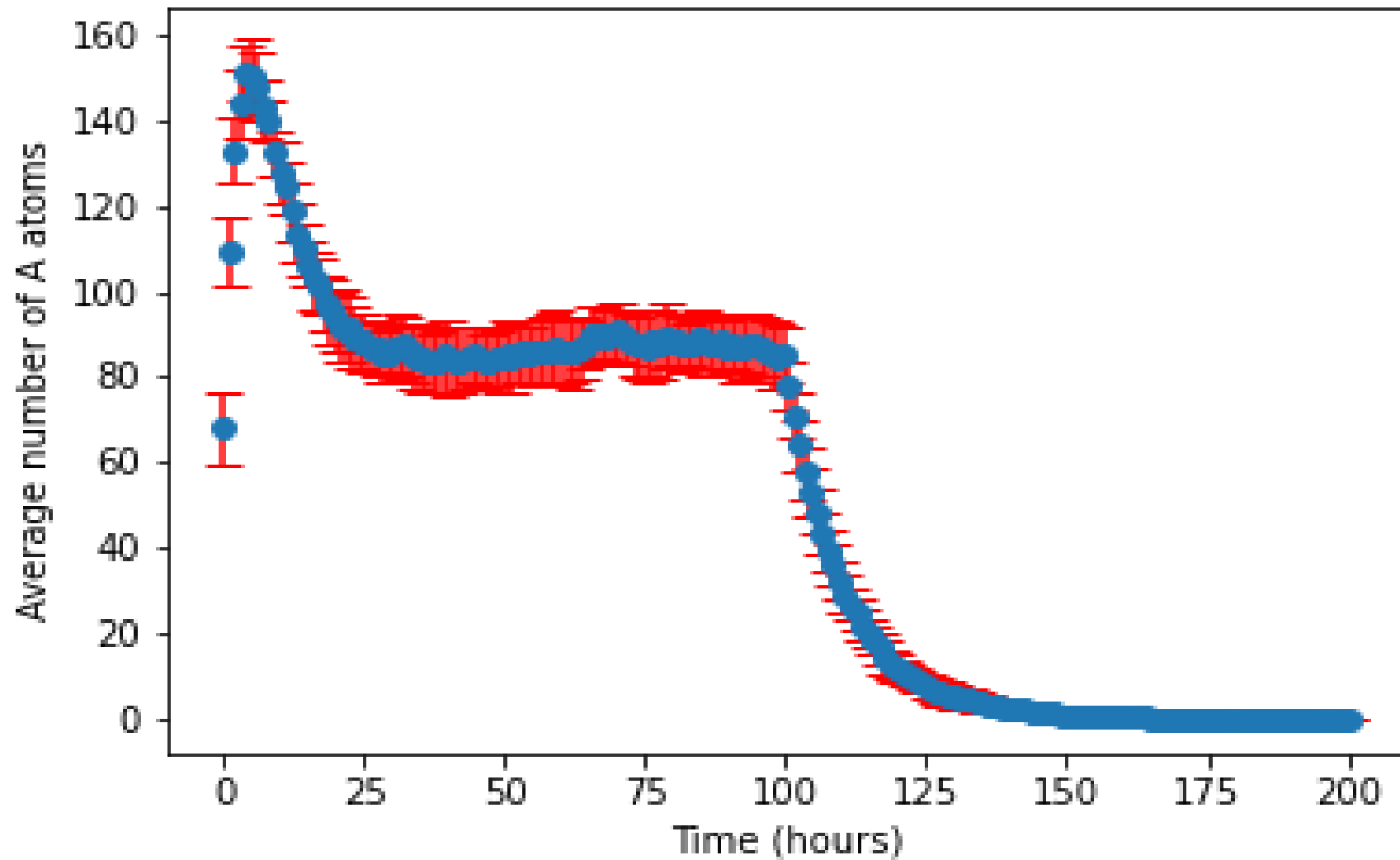
Range vs Initial Velocity for a Projectile at 60 degrees



Nuclei Decay and Activation over Time

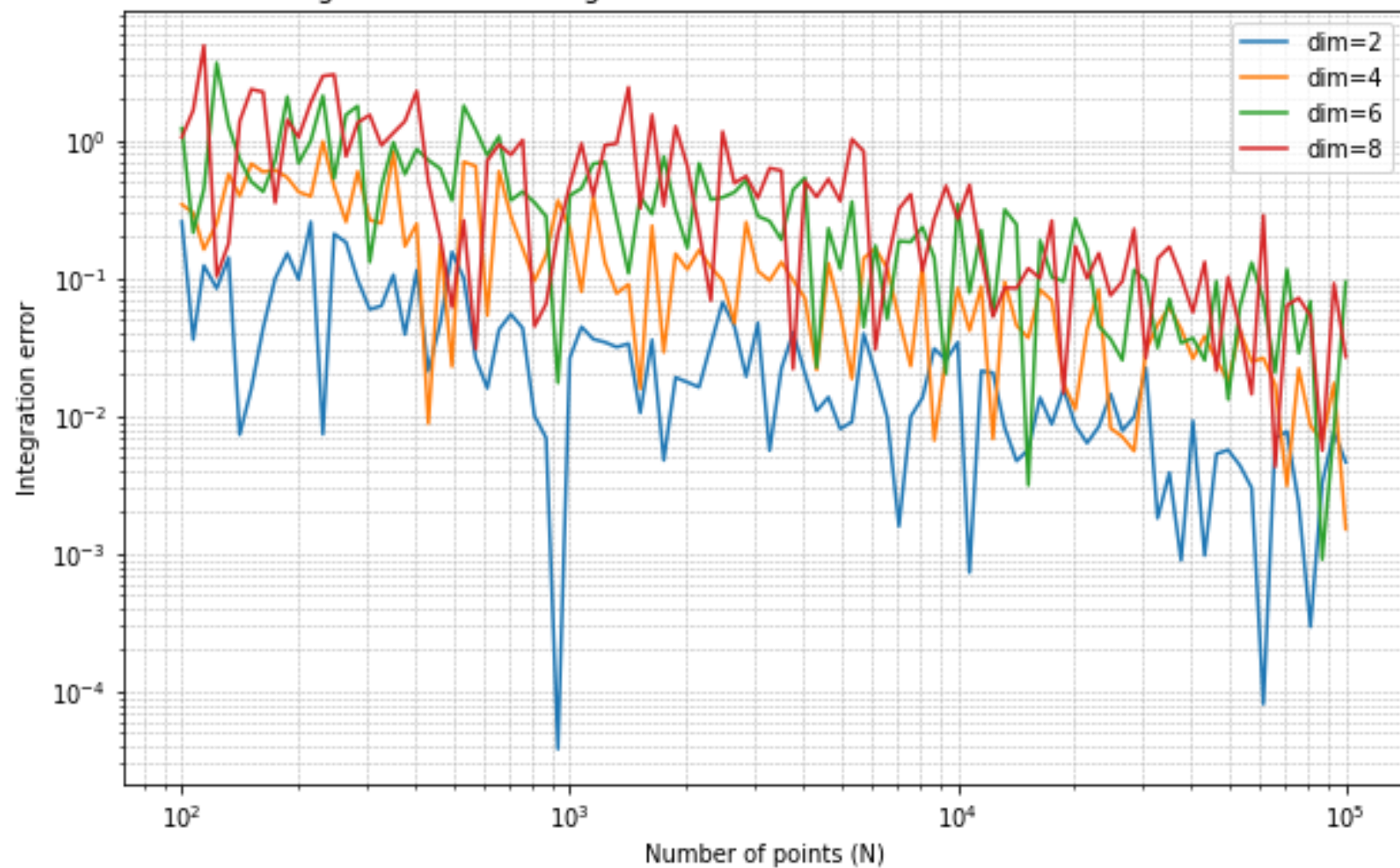


Average Number of A Atoms Over Time with Uncertainty

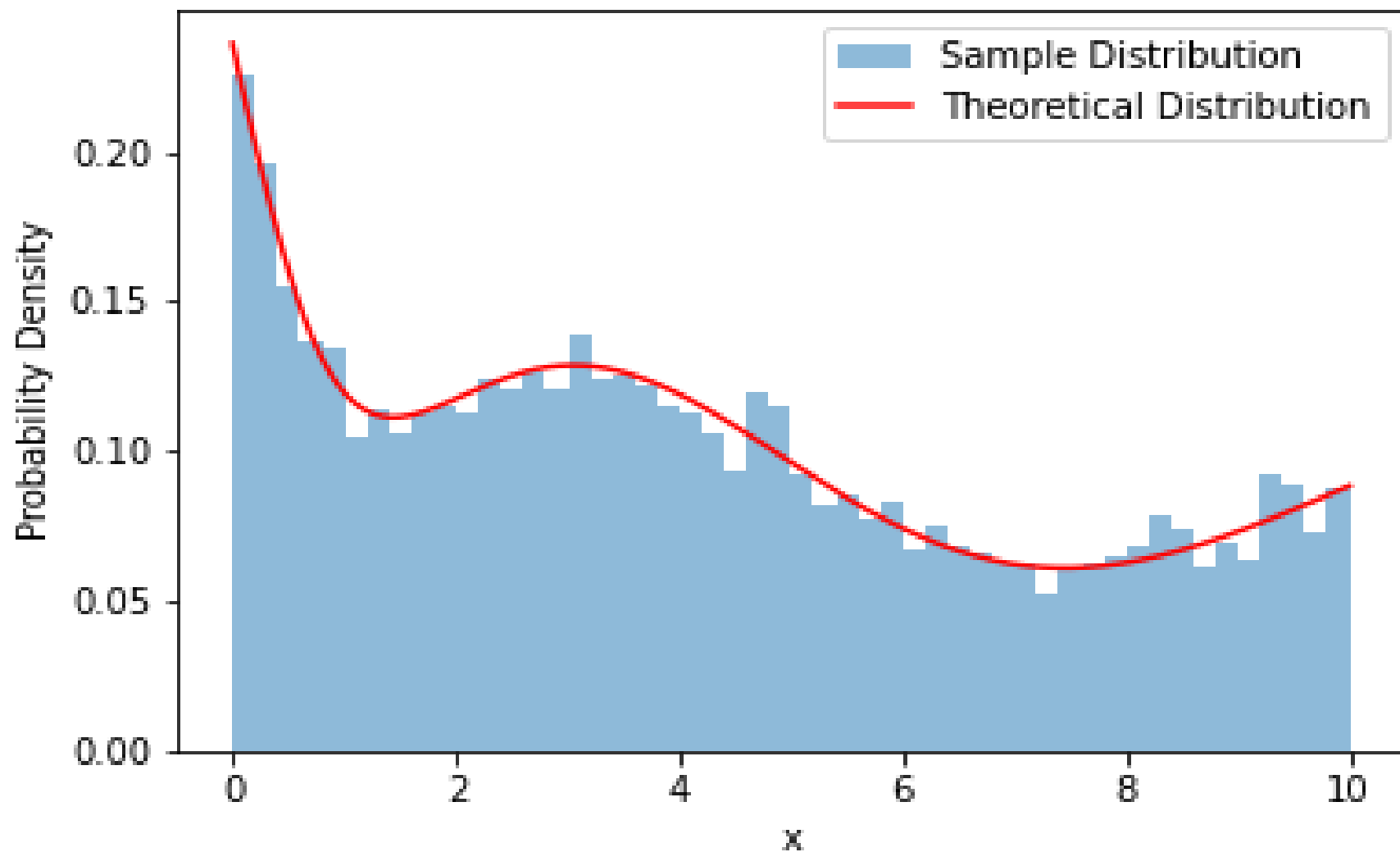




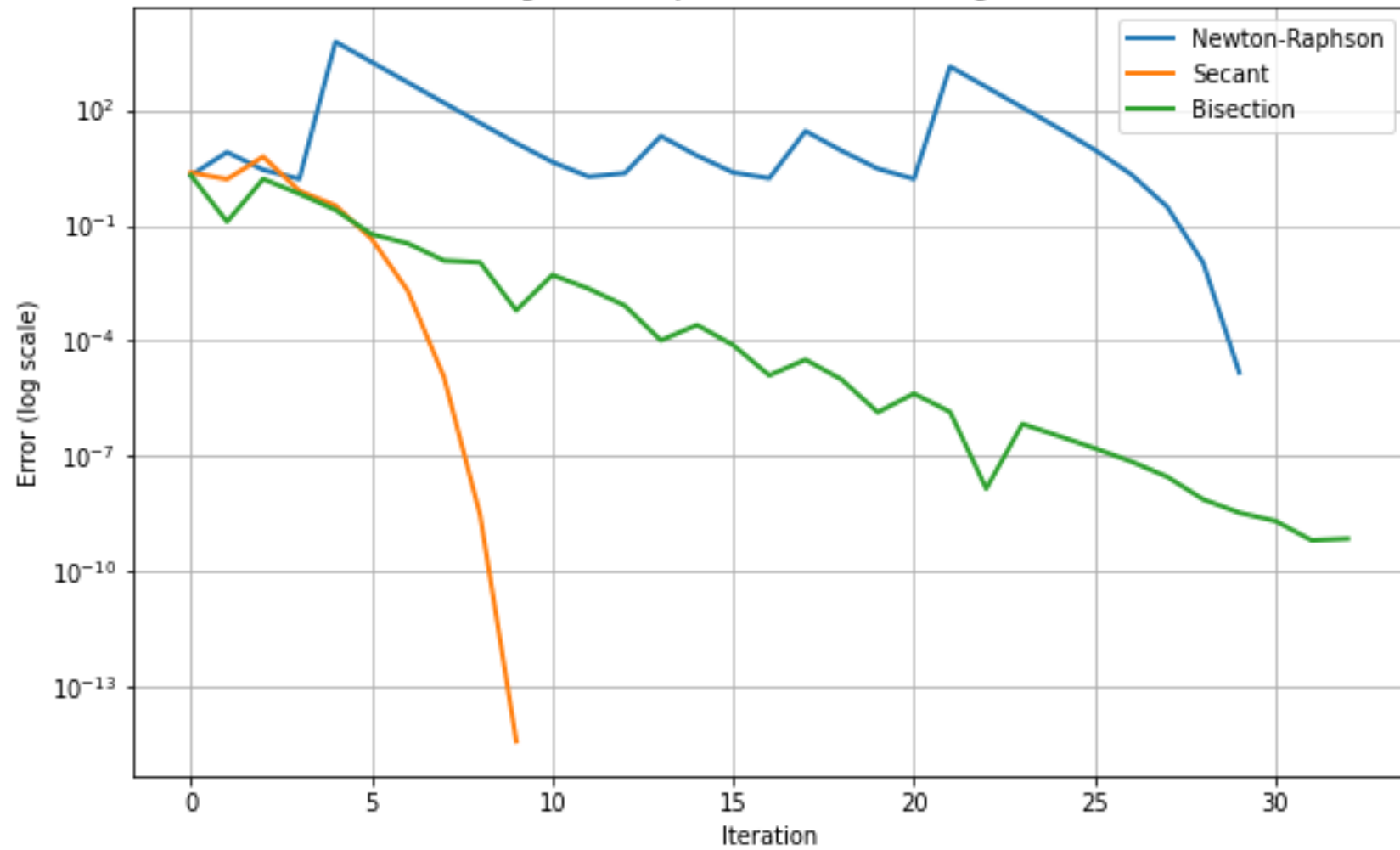
Integration Error Scaling with Number of Points for Different Dimensions



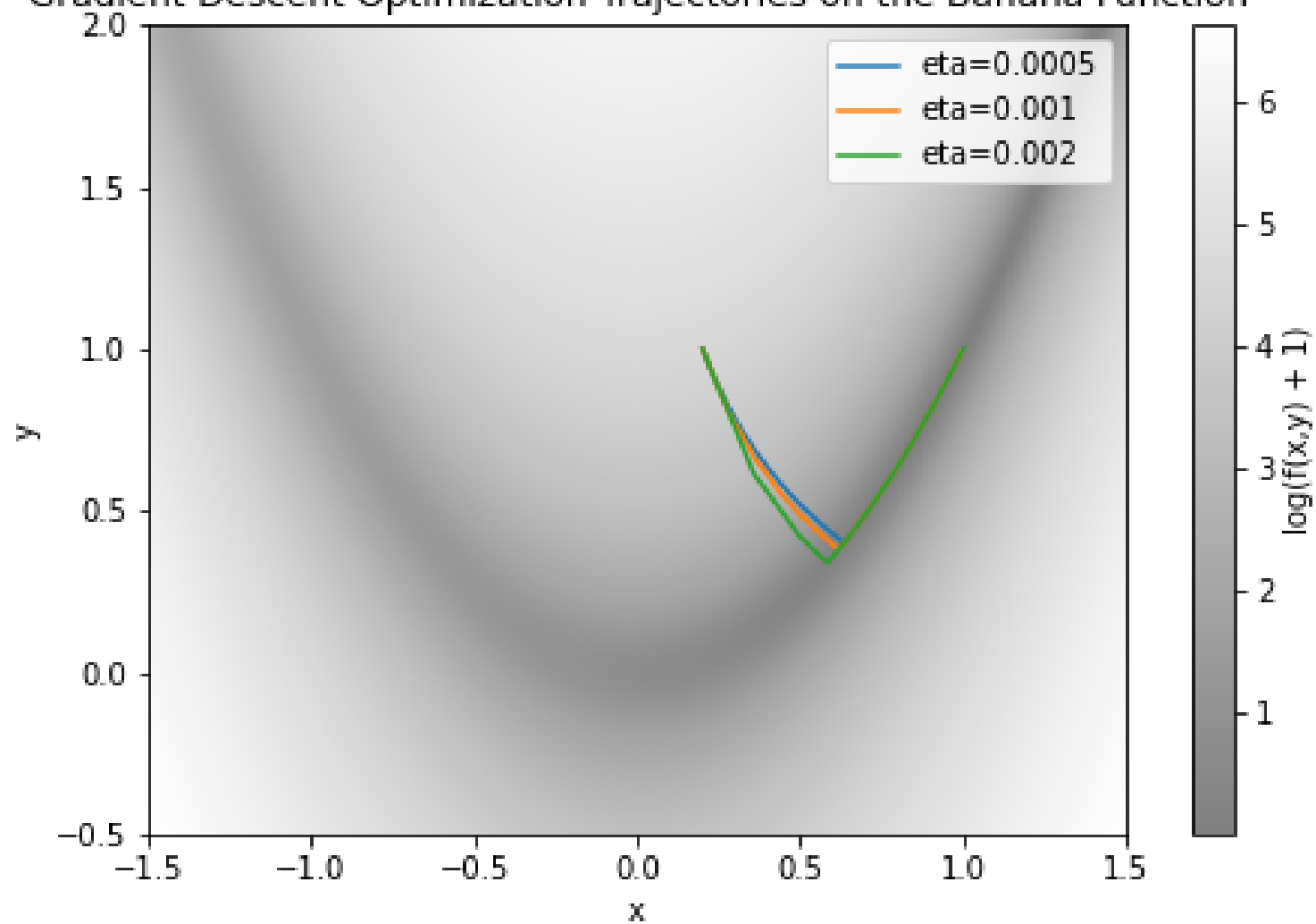
Distribution of Values Generated by genSample()



Convergence Comparison of Root-Finding Methods



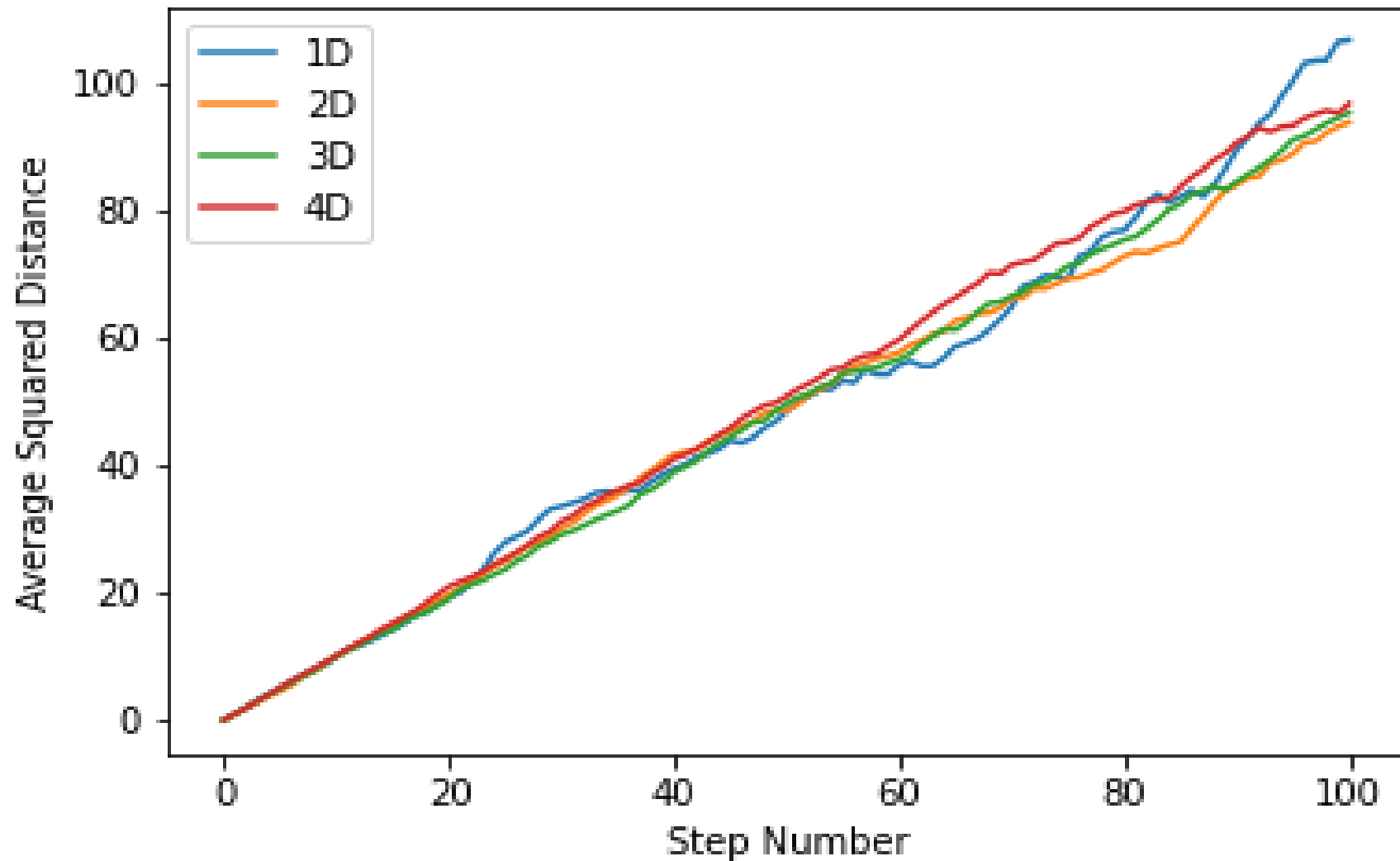
Gradient Descent Optimization Trajectories on the Banana Function



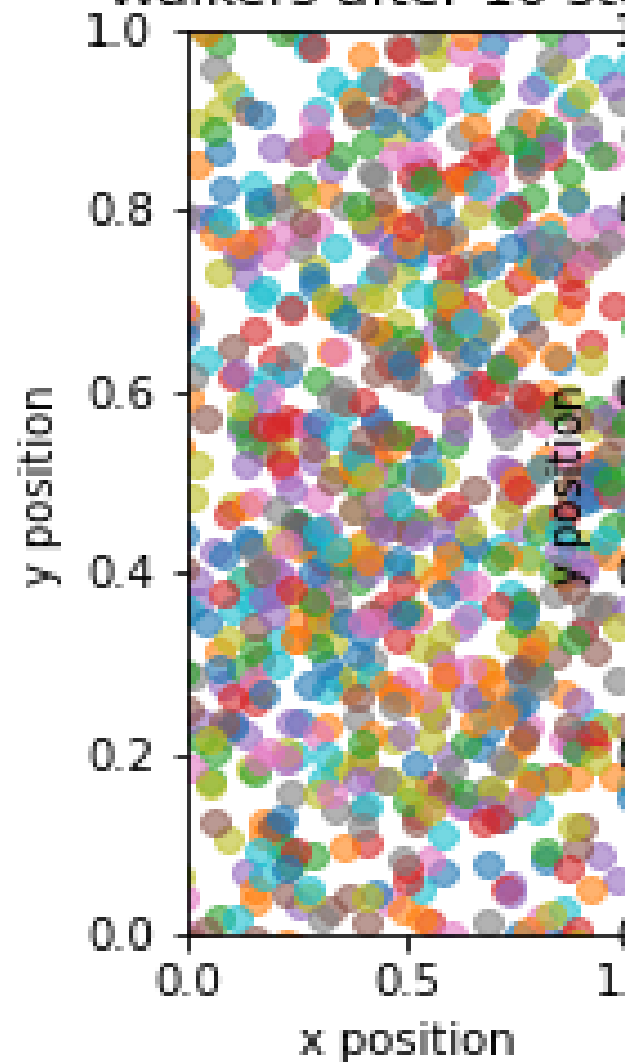
Average Position and Average Squared Position of 1D Random Walkers



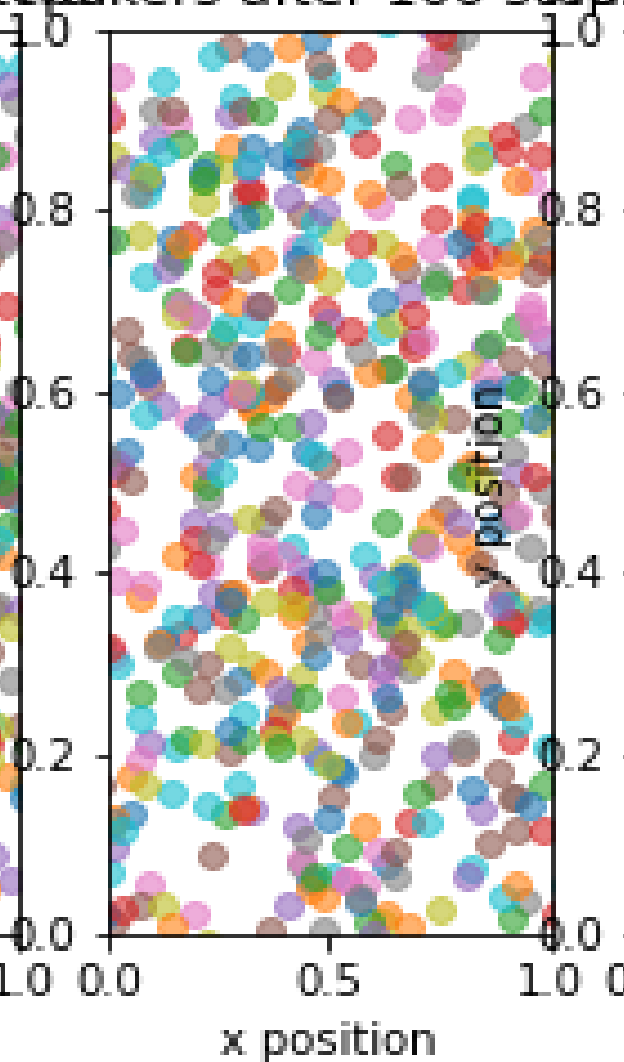
Average Squared Distance vs Number of Steps for Different Dimension



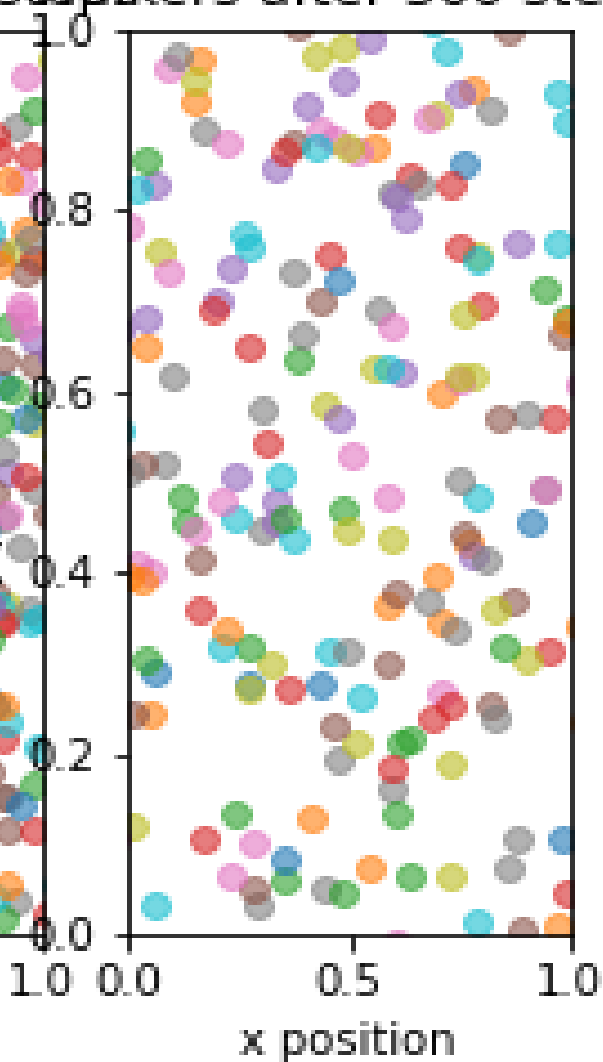
Walkers after 10 steps



Walkers after 100 steps



Walkers after 500 steps



AI?