

Experiment 2

1600 Microtubules, two ending behaviors compared

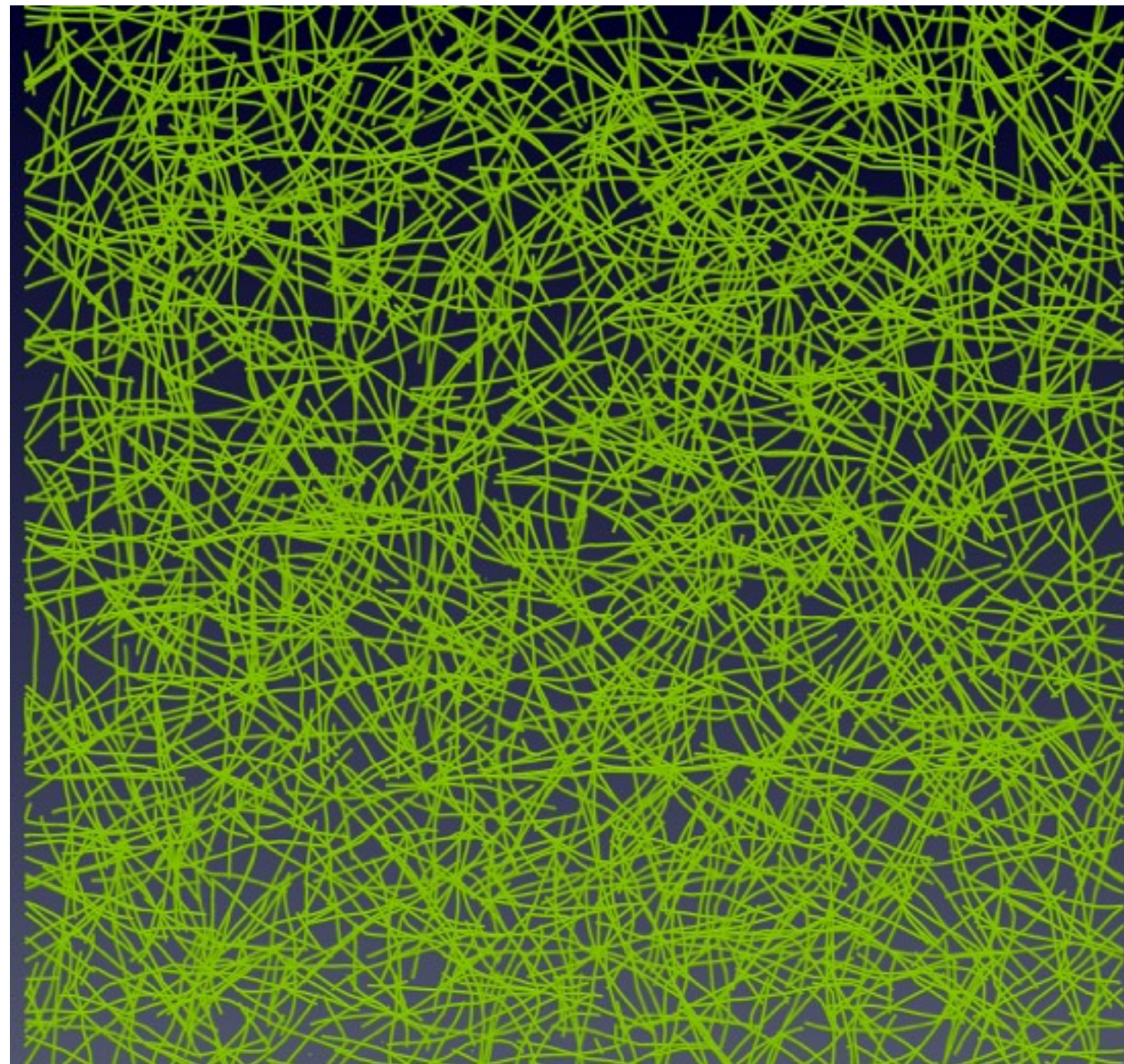


Figure 34: Long-time behavior of simulation with crossover, but low zippering leading to *network-like* behavior.

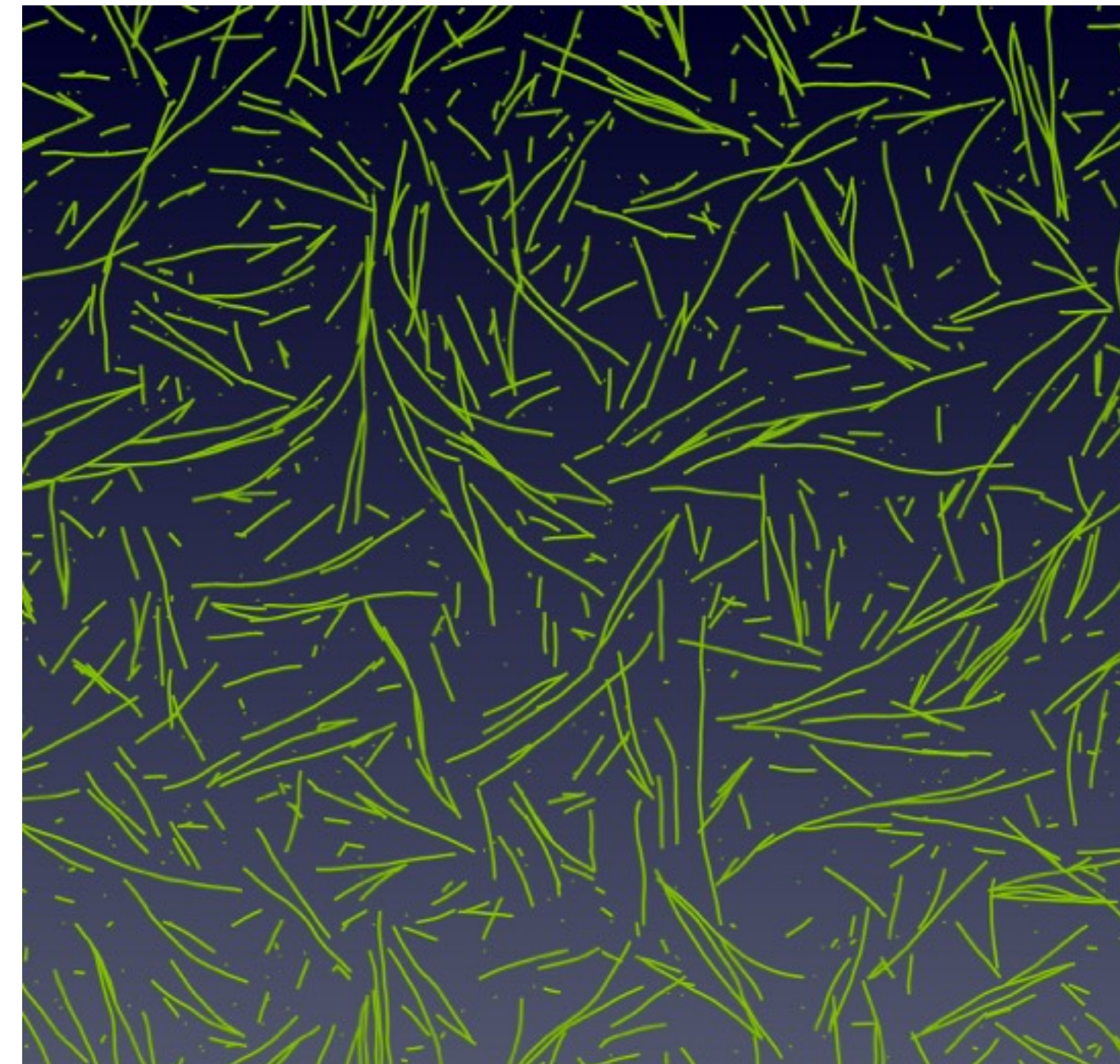


Figure 35: Long-time behavior of simulation with zippering, but low crossover leading to *local alignment*.

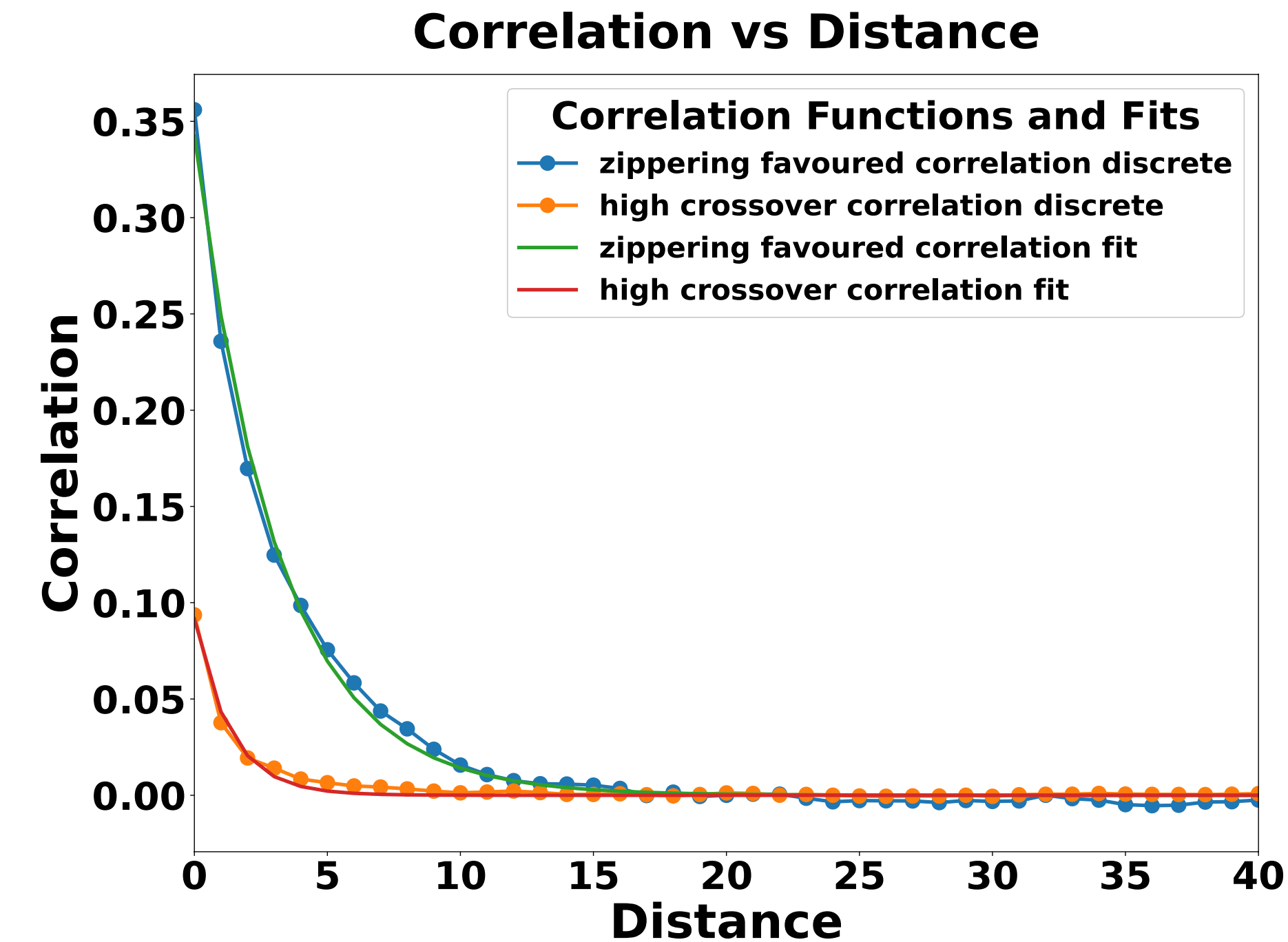


Figure 36: Correlation vs distance function, is the function being fit by $Ae^{-d/\xi}$ and where correlation is the squared cosine between the orientation of the MT segments.

Experiments 1 & 3

Performance Measurements, Reactivity and Subdivisions

1600 Time Steps of 1600 MTs
on 8x8 Subdivision

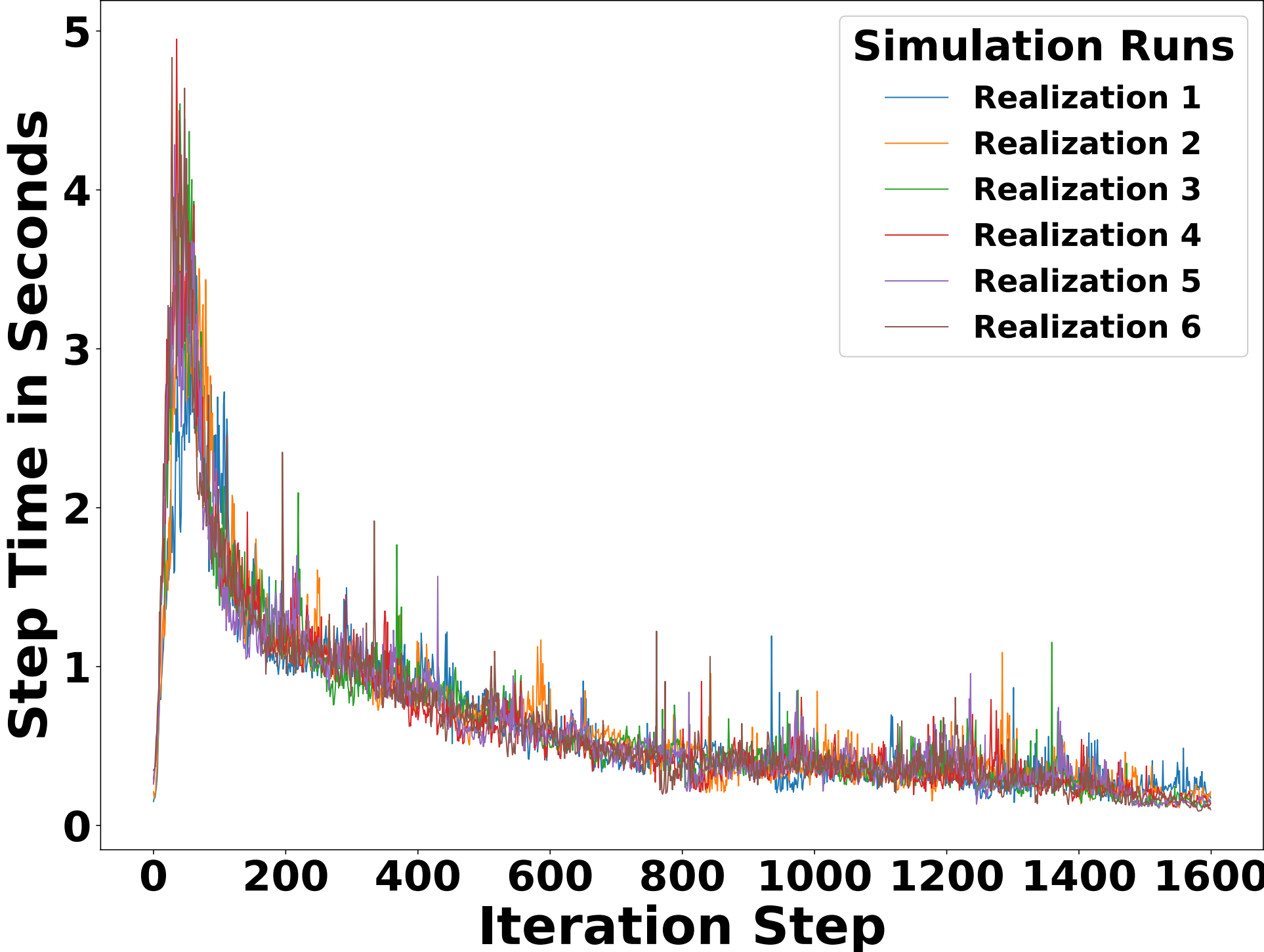


Figure 37: Reactivity analysis plot of crossover simulation from experiment 1.

Performance Comparision of 3200 MTs
on Different Subdivisions

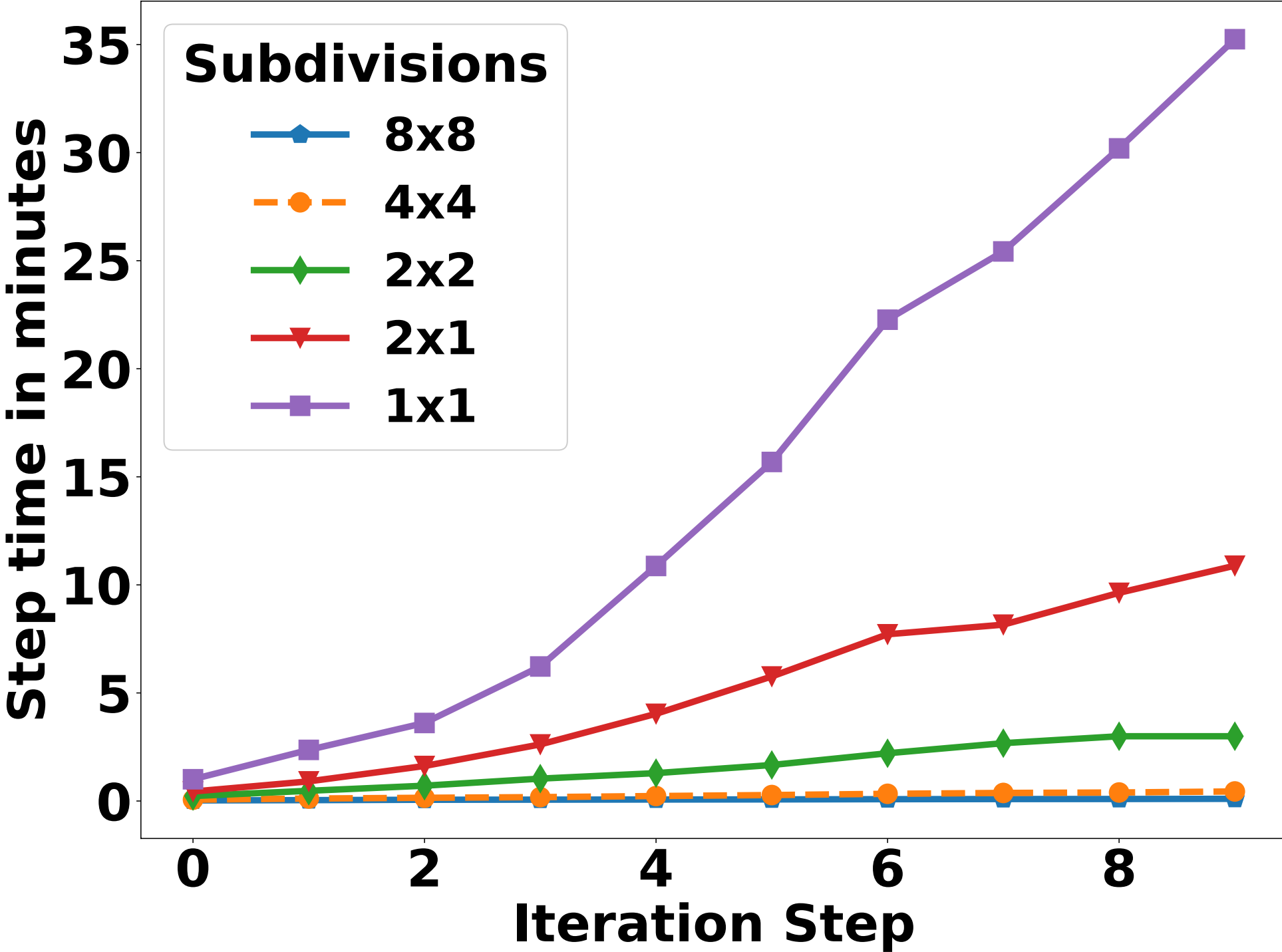


Figure 38: Run time per step in minutes for experiment 3.