Lab 3A: Brownian motion

Team info

Lab section (DELETE ONE): C01 (12-3 PM) | C02 (3-6 PM)

Team name: \_\_\_\_\_\_\_\_\_\_\_

Journalist: \_\_\_\_\_\_\_\_\_\_\_

Data Interpreter: \_\_\_\_\_\_\_\_\_\_\_

Critic: \_\_\_\_\_\_\_\_\_\_\_

Checker: \_\_\_\_\_\_\_\_\_\_\_

For grader use

Completeness (1-3): \_\_\_\_

Clarity (1-5): \_\_\_\_

Persuasiveness (1-5): \_\_\_\_

Inspiration (1-3): \_\_\_\_

For this week only, turn in your own personal lab report. This is not a team report.

# Journal

No need for an extensive journal entry this week.

# Data and Interpretation

Using your bead’s data, plot the mean displacement (in x and y) and the mean-square displacement (in x, y and r) vs time. That’s all!

# Evaluation

Does it look like the average displacement is zero over time, and that the average displacement squared is growing linearly in time? An opinion of a sentence or two is all we’re looking for here.