

Spike Trains

Question 1

Data generated using the spike trains simulated using a poisson process:-

Total Time Period = 1000.0 sec

Firing Rate = 35.0 Hz

Refractory Time = 0.0 sec

Fano Factor (10ms) = 0.9932

Fano Factor (50ms) = 0.9755

Fano Factor (100ms) = 0.9595

Coefficient of Variation = 0.9903

Refractory Time = 0.005 sec

Fano Factor (10ms) = 0.7514

Fano Factor (50ms) = 0.7039

Fano Factor (100ms) = 0.6895

Coefficient of Variation = 0.8234

Question 2

Data generated using the spike trains from the rho.dat file :-

Total Time Period = 1200.0 sec

Firing Rate = 500.0 Hz

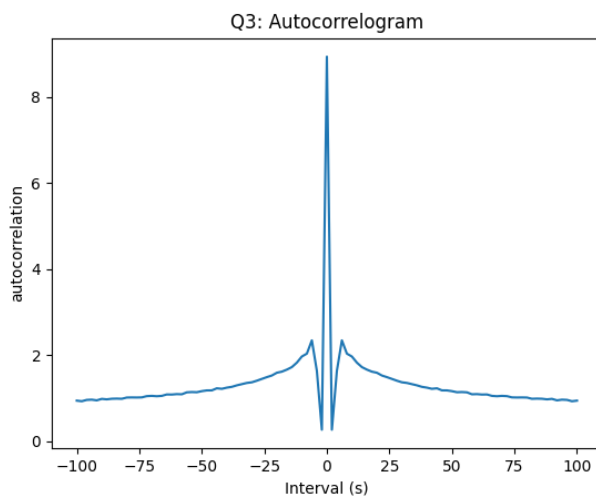
Fano Factor (10ms) = 1.1176

Fano Factor (50ms) = 2.9297

Fano Factor (100ms) = 4.1029

Coefficient of Variation = 2.0085

Question 3



Question 4

