Computational Neuroscience Coursework 2

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1.1 Fano Factor

Window (ms)	No Refractory	5ms Refractory
10	1.011	0.700
50	1.018	0.697
100	1.020	0.690

Table 1: This table shows the fano factor calculated under different parameter values. The spike train is generated by the spike_train function.

1.2 Coefficient of Variation

No Refractory Period	5ms Refractory Period
1.001	0.823

Table 2: This table shows the CoV of the generated spike train data for both no refractory period and for 5ms of refractory period.

2.1 Fano Factor

Window (ms)	Fano Factor
10	1.120
50	2.933
100	4.107

Table 3: This table shows the fano factors calculated, with different window sizes, given the spike train data provided of a fly H1 neuron.

2.2 Coefficient of Variation

Coefficient	of	Variance
2.009		

Table 4:

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