Quiz 6.1: Escape Rate/Stochastic Intensity in Neuron Models

Escape rate/stochastic intensity in neuron models

0 points possible (ungraded)

- [x] The escape rate of a neuron model has units one over time. ✔
- [x] The stochastic intensity of a point process has units one over time. ✔
- [ ] For large voltages, the escape rate of a neuron model always saturates at some finite value.
- [ ] After a step in the membrane potential, the mean waiting time until a spike is fired is proportional to the escape rate.
- [x] After a step in the membrane potential, the mean waiting time until a spike is fired is equal to the inverse of the escape rate. ✔
- [ ] The stochastic intensity of a leaky integrate-and-fire model with reset only depends on the external input current but not on the time of the last reset.
- [x] The stochastic intensity of a leaky integrate-and-fire model with reset depends on the external input current AND on the time of the last reset. ✔

✖

Submit You have used 1 of 1 attempt

ℹ Answers are displayed within the problem

Discussion

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