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Predicting action potentials and membrane potential of neurons

If neurons receive a current that is generated by a filtered point process, they fire spikes at specific moments in time, with little variation from one trial to the next.

In this talks I will discuss

- (i) how to compare spike trains and measure reliability
- (ii) how to extract adaptative currents from the data
- (iii) how to systematicaly construct neuron models from simple models to more complex ones.