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Talk 1:

Computations by noisy networks of spiking neurons I

I will sketch recent results from neuroscience about noise and trial-to-trial variability in networks of neurons in the brain, and propose models that may help to understand how the underlying noise supports computation and learning in these networks.

Some of this material can be found in
S. Habenschuss, Z. Jonke, and W. Maass. Stochastic computations in cortical microcircuit models. PLOS Computational Biology, 9(11):e1003311, 2013