



LABORATORY OF COMPUTATIONAL
NEUROSCIENCE (LCN)



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

BMI SEMINAR &
COMPUTATIONAL NEUROSCIENCE SEMINAR

Wednesday, June 10th, 2015
13h30, Room AAC 132

Wilson TRUCCOLO

Brain Science Institute, Department of Neuroscience,
Division of Biology and Medicine, Brown University

Collective neuronal dynamics during
human focal seizures

Advances in microelectrode array devices now allow the recording of ensembles of single neurons in people with pharmacologically intractable focal epilepsy. In this talk, I will present recent experimental findings on the collective dynamics in neocortical neuronal ensembles during human focal seizures. I will also discuss methodological challenges in the data-driven stochastic modeling of these collective dynamics and potential applications to closed-loop systems for seizure prediction and control.

Host: Prof. Wulfram Gerstner