

4 d'abril de 2018

Centre de Recerca Matemàtica

Aula A1

A les 12.00h

Kathryn Hess

École polytechnique fédérale de Lausanne

## Topological vistas in neuroscience

I will describe results obtained in collaboration with the Blue Brain Project on the topological analysis of the structure and function of digitally reconstructed microcircuits of neurons in the rat cortex and outline our on-going work on topology and synaptic plasticity. The talk will include an overview of the Blue Brain Project and a brief introduction to the topological tools that we use. If time allows, I will also briefly sketch other collaborations with neuroscientists in which my group is involved

Departament de Matemàtiques