

Cortical Computation 60th Birthday Colloquium in Honor of Walter Senn

Thursday, June 15th 2023, 13³⁰ - 19⁰⁰

Science, Apéro & Music

**UniS Auditorium S003
Schanzeneckstrasse 1, Bern**

Program

13³⁰ Welcome and Introduction

Claudio Bassetti (Dean Medical Faculty, University of Bern)
Antoine Adamantidis (UBern, ZEN)
Mihai Petrovici (UBern, Institut für Physiologie)

13⁴⁵ Session 1: Cortical computation *in silico*

Chair: Antoine Adamantidis

- 13⁴⁵ **Mihai Petrovici** (UBern)
Physics-inspired approaches to computational neuroscience
- 14⁰⁵ **Jean-Pascal Pfister** (UBern)
Cortical computation from a nonlinear filtering perspective
- 14²⁵ **João Sacramento** (ETHZ)
Online learning of long-range dependencies

14⁴⁵ Coffee Break

15¹⁵ Session 2: Cortical circuits *in actio*

Chair: Jean-Pascal Pfister

- 15¹⁵ **Johanni Brea** (EPFL)
Modeling Episodic Memory
- 15³⁵ **Eleni Vasilaki** (USheffield)
Signatures of decision making on multiple scales
- 15⁵⁵ **Athina Tzovara** (UBern, ZEN/CompSci)
Neural timescales of auditory processing

16¹⁵ Coffee Break

16⁴⁵ Session 3: Dendritic Computation *in vivo*

Chair: Mihai Petrovici

- 16⁴⁵ **Matthew Larkum** (UHumboldt Berlin)
Dendritic computation and behavior
- 17¹⁵ **Fritjof Helmchen** (UZürich)
Apical dendritic tufts in the context of large-scale brain circuitry

17⁴⁵ Apéro with music by M. Larkum and F. Helmchen

19⁰⁰ Dinner

Registration for apéro, dinner and hike next day

