



SCIENTIFIC PROGRAM

MONDAY 9th

- 08:30 - 09:15: Registration
- 09:15 - 09:30: **Welcome**, A. Palacios and M.J. Escobar
- 09:30 - 10:30: **Plenary Lecture** "Principles of neural design", Peter Sterling
- 10:30 - 11:00: Coffee break
- 11:00 - 12:00: **School Lecture** "A closer look at receptive fields of retinal ganglion cells", Tim Gollisch
- 13:00 - 15:00: Lunch
- 15:00 - 16:00: **Tutorial** "Temporal Dynamics of Neuronal Activity in the Striate Cortex", Pedro Maldonado
- 16:00 - 16:30: Coffee break
- 16:30 - 17:30: **School Lecture** "Spike train statistics in neural network: exact results", Bruno Cessac
- 17:30 - 19:00: **Welcome Reception**

TUESDAY 10th

- 09:30 - 10:30: **School Lecture** "Reverse engineering the retina", Peter Sterling
- 10:30 - 11:00: Coffee break
- 11:00 - 12:00: **Plenary Lecture** "Functional connectivity in the retina at the resolution of photoreceptors", E.J. Chichilnisky
- 13:00 - 15:00: Lunch
- 15:00 - 16:00: **School Lecture** "Modulation of pupil size: a multidisciplinary approach", Jean Lorenceau
- 16:00 - 16:30: Coffee break
- 16:30 - 17:30: **Tutorial** "Color vision and evolution", Adrian Palacios
- 17:30 - 18:30: **School Lecture** "Computing with spikes in the deterministic case", Thierry Viéville

WEDNESDAY 11th

- 09:30 - 10:30: **Plenary Lecture** "The search for the neural code in the retina", Tim Gollisch
- 10:30 - 11:00: Coffee break
- 11:00 - 12:00: **School Lecture** "Ensemble coding of visual information in the primate retina", E.J. Chichilnisky

- 13:00 - 15:00: Lunch
- 15:00 - 16:00: **Plenary Lecture** “Lecture on spike train statistics beyond the maximal entropy models”, Bruno Cessac
- 16:00 - 16:30: Coffee break
- 16:30 - 17:30: **Tutorial** “Modeling motion direction selectivity in the retina”, María José Escobar
- 17:30 - 18:30: **Workshop I: Natural Images**, Thierry Viéville

THURSDAY 12th

- 09:30 - 10:30: **Plenary Lecture** “From photons to complex visual computations”, Jean Lorenceau
- 10:30 - 11:00: Coffee break
- 11:00 - 12:00: **School Lecture** “The population neural code of the retina”, Michael Berry II
- 12:00 - 13:00: **Plenary Lecture** “Computation and adaptation in the retina”, Rava da Silveira
- 13:00 - 15:00: Lunch
- 15:00 - 16:00: **Tutorial** “Modeling the activity and response of cold-sensitive nerve terminals”, Patricio Orio
- 16:00 - 16:30: Coffee break
- 16:30 - 17:30: **School Lecture** “Reduction information in the brain”, Frédéric Alexandre

FRIDAY 13th

- 09:30 - 10:30: **Plenary Lecture** “Which information dynamics and neuronal processing underlie the organization of behavior: a framework”, Frédéric Alexandre
- 10:30 - 11:00: Coffee break
- 11:00 - 12:00: **School Lecture** “High-Fidelity Coding with Correlated Neurons”, Rava da Silveira
- 12:00 - 13:00: **Plenary Lecture** “The population neural code of the retina”, Michael Berry II
- 13:00 - 15:00: Lunch
- 15:00 - 16:00: **Workshop II: Methods**, Adrián Palacios and María José Escobar
- 16:00 - 18:30: **Farewell party**