

**MC20 Neuromorphic computing with complex systems I**

Wednesday, 4 September, morning

Chair: Roberta Zambrini

Room:

Hours	ID	Name	Type	Title
10h30-11h00	15568	Alejandro Giacomotti	Invited	Image classification based on Exceptional Point bifurcations in nanolaser arrays
11h00-11h30	14888	Neda Ghofraniha	Invited	Parisi Replica Symmetry Breaking and Complexity in Random Lasers
11h30-12h00	14735	Fabrice Raineri	Invited	InP on Silicon spiking nanolasers
12h00-12h15	13829	João Azevedo	Oral	III-V Semiconductor Bioinspired Nanopillar Arrays for Neuromorphic Applications
12h15-12h30	14733	Marcos Díaz	Oral	Nonlinear dynamics in an optimized optomechanical resonator

MC20 Neuromorphic computing with complex systems II

Wednesday, 4 September, afternoon

Chair: Pedro David García

Room:

Hours	ID	Name	Type	Title
16h00-16h30	14038	Andrea Morandi	Invited	Linear and Nonlinear Optics in Lithium Niobate as the Platform for Photonic Neuromorphic Computing
16h30-17h00	13469	Valentina Parigi	Invited	Spectral and time multiplexed continuous variable quantum information
17h00-17h15	14039	L. M. S. Dias	Oral	Luminescent Waveguides: Building Blocks for Energy-Efficient Photonic Neuromorphic Systems
17h15-17h30	13818	Artur Andrishak	Oral	Microprinted 3D Polymer Waveguides for Integrated Neuromorphic Photonic Chip Interconnects
17h45-18h00	13773	Shulamit Edelstein	Oral	Optomechanical coupling optimization in engineered nanocavities



MC20 Neuromorphic computing with complex systems III

Thursday, 5 September, afternoon

Chair: Bruno Romeira

Room:

Hours	ID	Name	Type	Title
16h00-16h30	15134	Bryan Kelleher	Invited	Neuromorphic dynamics in optically injected dual state quantum dot lasers
16h30-17h00	13622	Giovanni Donati	Invited	Photonic-electronic Resonant Tunnelling Diode neurons
17h00-17h30	13316	Tristan Gomes	Invited	Neuromorphic weighted sum with magnetic skyrmions
17h30-17h45	13537	Tim Böhnert	Oral	Multifunctional magnetic tunnel junction for neuromorphic computing
17h45-18h00	14734	Pedro Moronta	Oral	Governing spectral persistence in Random Lasers

Poster Session

Thursday, 5 September

ID	Name	Title
13780	Juan Silva	Artificial Sensory Oscillator Neuron based on III-V Semiconductor Micropillars for Neuromorphic Computing