	Monday	Tuesday	Wednesday	Thursday	Friday
07:30	Breakfeast	Breakfeast	Breakfeast	Breakfeast	Breakfeast
08:30	Sergio Martinoia, University of Genova Tutorial: Micro-Electrode Arrays technology and in vitro (engineered) neuronal models	Sergio Martinoia, University of Genova Review: Advanced neuro-electronic interfaces coupled to engineered neuronal assemblies: network dynamics and connectivity	Wlodzislaw Duch, Nicolaus Copernicus University Tutorial: Multi-level explanations in neuroscience I: From genes to subjective experiences.	Lucilla De Arcangelis, University of Campania Tutorial: Physics of complex systems and criticality	Concetto Spampinato, University of Catania Review: Reverse-brain engineering: Decoding Brain Visual Representations using AI
09:30	Roger Dangel, IBM Zürich Tutorial: Analog Crossbar Arrays - Future Neuromorphic Workhorses for Neural Networks	Roger Dangel, IBM Zürich Review: Photonic Processing Unit - Acceleration of Neural Network Training Based on Analog Optical Crossbar Arrays	Lorenzo Pavesi, University of Trento Review: Neuromorphic photonics	Wlodzislaw Duch, Nicolaus Copernicus University Review: Searching for fingerprints of brain cognitive activity and their applications.	Lucilla De Arcangelis, University of Campania Review: Criticality as a signature of healthy neural systems
10:30	Coffee	Coffee	Coffee	Coffee	Coffee
11:00	Natsue Yoshimura, Tokyo Institute of Technology Review 1: Brain-computer interface (Invasive, Non-invasive, EEG)	Mukesh Dhamala, Georgia State University Tutorial: Granger causality: theory and applications to neuroscience data	Luca Faes, University of Palermo Tutorial: Information-Theoretic Analysis of Brain and Physiological Networks: Methods	Luca Faes, University of Palermo Review: Information-Theoretic Analysis of Brain and Physiological Networks: Applications	Angelo Bifone, University of Turin & Italian Institute of Technology Review: Brain functional connectivity and neuropsychiatric disorders: lost in translation
12:00	Athena Demertzi, University of Liège Tutorial: Resting state fMRI as a means to assess the consciousness after severe brain injury	Mukesh Dhamala, Georgia State University Review: Oscillatory network activity in brain functions and dysfunctions	Ludovico Minati,Tokyo Institute of Technology & Polish Academy of Science Review 3: More non-linear circuits: integrated implementation, versatile motor pattern generation, criticality	Natsue Yoshimura, Tokyo Institute of Technology Review 2: Neural decoding using non-invasive brain activity signals. (Machine learning, motor control, fMRI)	Alessandro Gozzi, Italian Institute of Technology Review: Oscillatory dynamics in networks of brain activity during rest
13:00	Lunch	Lunch	Lunch	Lunch	Lunch

	Monday	Tuesday	Wednesday	Thursday	Friday
14:30	Athena Demertzi, University of Liège

Review: Quantifying conscious level by means of intrinsic brain connectivity | Ludovico Minati,Tokyo Institute of Technology & Polish Academy of Science Review 2: Remote synchronization: detailed account of a peculiar pattern-formation mechanism | Social event

Mountain trip | Alessandro Gozzi, Italian Institute of Technology

Tutorial: Networks of spontaneous brain activity in the rodent brain | |
| 15:30 | Thomas Nowotny, University of Sussex
Tutorial: Multi-scale modelling of neural circuits | Thomas Nowotny, University of Sussex
Review: Insect solutions to olfaction and visual navigation | | Concetto Spampinato, University of Catania
Tutorial: Neural Data Analysis in the Deep Learning Era | |
16:30	Coffee	Coffee		Coffee	
17:00	Ludovico Minati,Tokyo Institute of Technology & Polish Academy of Science Review 1: Connectivity and synchronization: comparison of neural observations and experiments with toy networks	Posters		Posters	
18:00	Claudio R. Mirasso, University of the Balearic Islands Review: Synchronization of neuronal circuits: modeling and dynamics		Winary visit		
				Meeting (Lecturers only)	
19:30	Dinner	Dinner	Dinner at the winary	Dinner	