18/10	19/10	20/10	21/10
Arrival Day	09:00 Savel'ev	09:00 Di Ventra	Departure Day
	09:50 Tetzlaff	09:50 Dimitrakis	
	10:20 **Coffee Break**		
	10:50 Mikhaylov	10:50 Erokhin	
	11:20 Filatov	11:20 Koveshnikov	
	11:50 Agudov	11:50 Panin	
	12:20 Demin	12:20 Battistoni	
	12:40 Ascoli	12:40 Korolev	
	13:00 **Lunch**		
14:00 Registration	15:00 Pershin	15:00 Shchanikov	
		15:20 Gismatulin	
	15:50 Brivio	15:40 Guseinov	
		16:00 Petrenyov	
	16:20 **Coffee Break**		
	16:50 Sanz	16:50 Filatrella	
		17:10 Guarcello	
	17:20 Tselikov	17:30 Carollo	
	17:50 Poster Session Oral	17:50 Leonforte	
18:00 Informal get-together at San Rocco's Cloister		18:10 Ben Khalifa	
	18:30 Poster Session Discussion	18:30 Round Table Project Multistability and Memristor **(PMM)**	
		19:30 Closing Remarks Free Discussion	
20:00 **Dinner**	20:00 **Social Dinner**	20:00 **Dinner**	
22:00 Almonds Sweets and Marsala at Marsala room			

PMM Session

Saturday 19/10

	Speaker	Talk
09:00 – 09:50	Savel'ev	*Comparing biological and artificial memristive neurons*
09:50 – 10:20	Tetzlaff	*Real-time computing by Memristor Cellular Nonlinear Networks (M-CNN)*
10:20 – 10:50		**Coffee Break**
10:50 – 11:20	Mikhaylov	*Towards implementation of collective dynamics of stochastic memristor-coupled artificial neurons*
11:20 – 11:50	Filatov	*Noise-induced resistive switching studied by Conductive Atomic Force Microscopy*
11:50 – 12:20	Agudov	*Nonequilibrium distributions and relaxation times in a stochastic model of memristor*
12:20 – 12:40	Demin	*From formal neural networks to memristor-based spiking neuromorphic systems: perspectives and open issues*
12:40 – 13:00	Ascoli	*A novel system-theoretic technique to analyze and design mem-computing M-CNNs*
13:00 – 15:00		**Lunch**
15:00 – 15:50	Pershin	*Dynamical aspects of resistance switching: Attractors, bifurcations, and ideal behavior*
15:50 – 16:20	Brivio	*Noise and Variability in Oxide-based Filamentary Resistance Switching Devices*
16:20 – 16:50		**Coffee Break**
16:50 – 17:20	Sanz	*Quantum Memristors and Quantum Neurons*
17:20 – 17:50	Tselikov	*Synthesis of metal oxide-based hybrid nanomaterials and their prospective in neuromorphic applications*
17:50 – 18:30		**Poster Session - Oral**
18:30 – 20:00		**Poster Session - Discussion**

Sunday 20/10

	Speaker	Talk
09:00 – 09:50	Di Ventra	*Memcomputing: leveraging memory and physics to compute efficiently*
09:50 – 10:20	Dimitrakis	*Emerging ReRAM devices and lithography manufacturing issues*
10:20 – 10:50		**Coffee Break**
10:50 – 11:20	Erokhin	*Organic Memristive Devices for Neuromorphic Applications*
11:20 – 11:50	Koveshnikov	*Resistive multi-level NVM devices for high capacity storage and neuromorphic system applications*
11:50 – 12:20	Panin	*Optoelectronic dynamic memristor systems based on two-dimensional crystals*
12:20 – 12:40	Battistoni	*Organic Memristive Devices and Organic Electrochemical Transistors: close friends in neuromorphic computations*
12:40 – 13:00	Korolev	*Formation of the new elements for the nonvolatile optical memory based on waveguides with switchable transparency of PCM materials*
13:00 – 15:00		**Lunch**
15:00 – 15:20	Shchanikov	*Memristor-based components for a bidirectional adaptive neural interface coupled with neuronal biocultures*
15:20 – 15:40	Gismatulin	*Charge transport mechanism of forming less $SiO_{1.09}$-based memristor in various states*
15:40 – 16:00	Guseinov	*Atomistic and dynamical stochastic models of metal-oxide memristive devices*
16:00 – 16:20	Petrenyov	*Conduction Mechanisms in Zr/ZrO_2-NT/Au Memristor Structures before and after Electroforming*
16:20 – 16:50		**Coffee Break**
16:50 – 17:10	Filatrella	*Josephson junctions switching current analysis for signal detection*
17:10 – 17:30	Guarcello	*Thermal noise effects on a memory element based on an anomalous Josephson junction*
17:30 – 17:50	Carollo	*Equilibrium and non-equilibrium phase transitions: a measure of quantumness*
17:50 – 18:10	Leonforte	*Finite-temperature topological phase transitions in two-dimensional systems*
18:10 – 18:30	Ben Khalifa	*Screening of the synthesis route on the structural, magnetic and magnetocaloric properties of $La_{0.6}Ca_{0.2}Ba_{0.2}Mn_{O3}$ manganite: comparison between solid-solid state process and combination polyol process and Spark Plasma Sintering*
18:30 – 20:00		**Round Table – Project Multistability and Memristor (PMM)**
		Closing Remarks and Free Discussion

Poster Session

Posters will be exposed in Saturday from 09:00 to 20:00 in the hall.
Poster discussion will be held in Saturday from 18:30 to 20:00.
Poster discussion will be preceded by a brief oral presentation session, 3 slides in 3 minutes, in which each participant will briefly show the focus and main results of the poster, inviting listeners to view it.

Boutasta	*Structural, electronic and optical propreties of Perovskite $BiFeO_3$ Nanoparticles*
Dubkov	*Stationary probabilistic characteristics of memristor in circuit with capacitor and colored Gaussian voltage source*
Gismatulin	*Charge transport mechanism of SiN_x-based memristor in various states*
Gorshkov	*Flicker noise spectroscopy as a tool for the measurement of activation energies of oxygen ion diffusion in memristor systems at fixed temperature*
Kharcheva	*Multistability in nonlinear dynamical systems induced by influence of colored noises*
Koriazhkina	*Statistical analysis of $ZrO_2(Y)/Ta_2O_5$-based memristor response to white Gaussian noise*
Korolev	*Effect of irradiation with Si+ ions on resistive switching in memristive structures based on yttria-stabilized zirconia and silicon dioxide*
Krichigin	*Memristive switching dynamics for symmetric three-stable profile based on the linear response theory*
Orlov	*Research of features bipolar resistive switching characteristics in Si_3N_4 based structure*
Rubtsov	*UNN interdisciplinary laboratory of stochastic multistable systems*
Shchanikov	*On the fault-tolerant tuning of multilayer perceptron networks based on memristor*
Si Abdelkader	*A Computational Study of Al/$La_{1-x}Sr_xFeO_3$ interface for Resistance Random Access Memory Applications*
Smirnov	*Investigation of forming-free TiO_2 memristor structures formed by local anodic oxidation nanolithography*
Vokhmintsev	*Unipolar and bipolar resistive switching in nanotubular titanium and zirconium oxide layers*