## DCP24 - Pisa June 5-8, 2024 - Program

Time	Event	Speaker	Title/Topic
	DAY #1- June 5th, 2024		
8:30- 9:00	Opening and 1	registration	
9:00- 9:30	Welcome speeches	<ul> <li>Frida Scarpa - City Council of Pisa</li> <li>Benedetta Mennucci - Università di Pisa</li> <li>Andrea Roventini - Scuola Superiore Sa</li> <li>Fabrizio Lillo - Scuola Normale Superior</li> <li>Fabio Recchia - Area della Ricerca del C</li> <li>Paolo Grigolini - University of North Text</li> </ul>	ant'Anna Pisa re Pisa CNR Pisa
9:30- 9:50	Talk #1	Benedetta Mennucci - Università di Pisa, IT	Towards an atomistic view of light-driven processes in biology
9:50- 10:10	Talk #2	Giorgio Scita - IFOM, IT	Tissue fluidification in pathophysiology
10:10- 10:30	Talk #3	Arti Ahluwalia - Università di Pisa, IT	Lab on a Laptop for investigating spheroid morphology and coexistence
10:30- 11:00	Coffee-break		
11:00- 11:20	Talk #4	Davide Usula - <i>Scuola Superiore Sant'Anna</i> <i>Pisa, IT</i>	Phases of Distributive Conflict and Inflation Spirals
11:20- 11:40	Talk #5	Nicola Pedreschi - Oxford University, UK	The temporal rich club phenomenon
11:40- 12:00	Talk #6	Michele Giusfredi - Università di Firenze, IT	Localization in boundary-driven lattice models
12:00- 12:20	Talk #7 online	Stefano Boccaletti - ISC-CNR, IT	The transition to synchronization of networked dynamical systems
12:20- 12:40	Talk #8	to be assigned	

12:40- 13:00	Talk #9	Marco Bianucci - ISMAR-CNR, IT	Generalized Cumulants and Lie-Evolution of operators: a versatile approach for Statistical Physics. Examples of applications including Geophysics/Climatel models
13:00- 14:30	Lunch		
14:30- 14:50	Talk #10 online	Giuseppe Longo - <i>École Normale Supérieure</i> <i>de Paris, FR</i>	Extended criticality
14:50- 15:10	Talk #11 online	Mauro Bologna Universidad de Tarapacá, CH	Fractional calculus
15:10- 15:30	Talk #12	Francesco Mainardi - Università di Bologna, IT	An application of fractional calculus: from diffusion to wave propagation
15:30- 15:50	Talk #13	Louis Roberto Evangelista	Fractional Calculus as a Tool for Applications in Soft Matter: Electrical Impedance Response of Materials
15:50- 16:10	Talk #14	Bruce West - University of North Texas, US	Fractional calculus
16:10- 16:30	Talk #15	to be assigned	
16:30- 17:30	Coffee-break	and poster session	
		DAY	#2- June 6th, 2024
9:00- 9:10	Opening and r	egistration	
<mark>9:10-</mark> 9:30	Talk #16	Francesco Carli, Università di Pisa, IT	Learning and actioning general principles of cancer cell drug sensitivity
9:30- 9:50	Talk #17	Elena Levantini, ITB-CNR, IT	From Genes to Networks: Exploring the Intricacies of Lung Cancer through Single-Cell Transcirptomics
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9:50- 10:10	Talk #18	Chiara M. Mazzanti, <i>Fondazione Pisana per la Scienza, IT</i>	-
9:50-	Talk #18 Talk #19		Innovative dynamic stratification in glioblastoma: analyzing tumor cell characteristics and

11:00- 11:20	Talk #20 online	Nils Gauthier - IFOM, IT	Invasive gliomas: Motility behaviors and mechanical properties	
11:20- 11:40	Talk #21	Ranieri Bizzarri - Università di Pisa, IT	Optical nanoscopy to understand the biology of biological condensates	
11:40- 12:00	Talk #22	Alessandro Torcini - CY Cergy Paris Université, FR	A robust balancing mechanism for spiking neural networks in absence of strong external currents	
12:00- 12:20	Talk #23	Mimma Nardelli - Università di Pisa, IT	ComEDA and MComEDA: new tools for the assessment of complex electrodermal activity dynamics	
12:20- 12:40	Talk #24	Marco Cafiso / Paolo Paradisi, <i>Università di</i> <i>Pisa, IT</i>	Complexity of a bio inspired Hopfield-type neural network: random vs. scale-free connectivity	
12:40- 13:00	Talk #25	Chiara Magliaro - Università di Pisa, IT	Mini-Brains, Big Opportunities: Navigating the Frontiers of Cerebral Organoids	
13:00- 14:30	Lunch			
14:30- 14:50	Talk #26 online	Bertram Duering - Warwick University, UK	Kinetic exchange models of societies and economies	
14:50- 15:10	Talk #27	Maurizio Benfatto /Elisabetta Pace - INFN, IT	Biophotons: a hard problem	
15:10- 15:30	Talk #28	Paolo Freguglia - Università de L'Aquila, IT	On the corporate organization. A proposal	
15:30- 15:50	Talk #29	to be assigned		
15:50- 16:10	Talk #30	Daniele Giachini - Scuola Superiore Sant'Anna Pisa, IT	Pricing anomalies in a general equilibrium model with biased learning	
16:10- 16:30	Talk #31	Andrea Antico - <i>Scuola Superiore Sant'Anna</i> <i>Pisa</i> , <i>IT</i>	The Effect of Market Selection on Pricing Patterns in a General Equilibrium Model with Behavioural Biases	
16:30- 17:30	Coffee-break	and poster session		
	DAY #3- June 7th, 2024			
9:00- 9:10	() nening and registration			

9:10- 9:30	Talk #32	Giulio Rossetti - ISTI-CNR, IT	Mass media impact on opinion evolution in biased digital environments
9:30- 9:50	Talk #33	Andrea Scarciglia - Università di Pisa, IT	Stochastic Coupling Estimation in Multivariate Dynamical Systems
9:50- 10:10	Talk #34	Antonio Politi - Aberdeen University - UK	Origin of metastable negative-temperature states in DNLS-type models
10:10- 10:30	Talk #35	Stefano Lepri - ISC-CNR, IT	Large-deviations approach to thermalization: the case of harmonic chains with conservative noise
10:30- 11:00	Coffee-break		
11:00- 11:20	Talk #36	Umberto Cherubini - Università di Bologna, IT	Consumption Skewness, Time Deformation and the Term Structure
11:20- 11:40	Talk #37	Andrea Vandin - Scuola Superiore Sant'Anna Pisa, IT	Model reduction for complex non-linear dynamical systems
11:40- 12:00	Talk #38	Guido Germano - University College of London - UK	Stochastic volatility models with stochastic interest rates
12:00- 12:20	Talk #39	Enrico Scalas - Sapienza Università di Roma, IT	Probabilistic methods for economic modeling
12:20- 12:40	Talk #40 online	Maksim Kitsak - Technical University Delft - NL	Finding shortest and nearly shortest path nodes in large substantially incomplete networks by hyperbolic mapping
12:40- 13:00	Talk #41	Lorenzo Gaetano Amato - Scuola Superiore Sant'Anna Pisa, IT	Brain network dynamics in health and disease
13:00- 14:30	Lunch		
14:30- 14:50	Talk #42	Luca Dini - ILC-CNR, IT	Enhancing Neural Language Models with Human Reading Behaviour
14:50- 15:10	Talk #43	Fabrizio Lillo - <i>Scuola Normale Superiore Pisa</i> , <i>IT</i>	Online learning of order flow and market impact
15:10- 15:30	Talk #44	Giorgio Rizzini - <i>Scuola Normale Superiore</i> <i>Pisa</i> , <i>IT</i>	Modelling shock propagation and resilience in financial temporal networks
15:30- 15:50	Talk #45	Francesco Marino - INO-CNR, IT	Kelvin-Helmholtz instability in quantum fluids as an emergent phenomenon

15:50- 16:10	Talk #46	Alberto Ortolani - IBE-CNR, IT	Climate complexity
16:10- 16:30	Talk #47	Best Poster Award	Flash talks
16:30- 17:30	Coffee-break	and poster session	
	DAY #4- June 8th, 2024		
9:00- 9:10	Opening and r	registration	
9:10- 9:30	Talk #48	Franco Flandoli - <i>Scuola Normale Superiore</i> <i>Pisa , IT</i>	A difficult Dynamical System question arising in Climate Change
9:30- 9:50	Talk #49	Marta Leocata - LUISS, IT	Climate and Economics
9:50- 10:10	Talk #50	Sandro Vaienti - Université de Toulon - FR	Quasi-ergodicity
10:10- 10:30	Talk #51	Matteo Tanzi - King's College London, UK	Selfconsistent Transfer Operators: Existence and stability of fixed points in presence of strong coupling
10:30- 11:00	Coffee-break		
11:00- 11:20		Marcello Buiatti Memorial Thesis Award Present	ation
11:20- 11:40	Talk #52	Angelo Vulpiani - Sapienza Università di Roma	Remarks on chaos in classical and quantum mechanics
11:40- 12:00	Talk #53	Andrea Ortone - <i>Scuola Superiore Sant'Anna</i> <i>Pisa, IT</i>	Beta oscillators interplay in a model of parkinsonian Basal Ganglia
12:00- 12:40	Talk #54	Marcello Buiatti Thesis Award	winners talks
12:40- 13:00	Talk #55	Massimo Stella - University of Trento, IT	Cognitive modelling of concepts in the mental lexicon with multiplex networks: Insights and advancements
13:00- 14:30	Lunch		

14:30- 14:50	Talk #56	Fabio Vanni - Università dell'Insubria, IT	Aging and Exchangeability
14:50- 15:10	Talk #57	Herbert Jelinek - Kahlifa University, AE	Mind over Matter: Physiological Response to Tibetan Singing Bowls and Effect on Inter- individual Complexity Matching
15:10- 15:30	Talk #58 online	Harvey Brenner Memorial Lecture by Elke Heckner - <i>Iowa University, USA</i>	Social Complexity and the Social Mind.
15:30- 15:50	Talk #59	Paolo Grigolini - University of North Texas, USA	Complexity form physics to social sciences
15:50- 16:10	round table Complexity Today, moderated by Paolo Grigolini		
16:10- 16:30	closing remarks		
16:30- 17:30	Farewell coffee-break		