

PROGRAM
CIMAT DAYS 2021

Room B, Department of Physics and Astronomy
University of Catania, Italy

Wednesday, September 29	Thursday, September 30	Friday, October 1
9:45 opening		
10:00 – 10:50 Andrea Cerioli (online) University of Parma <i>Statistical methods for anomaly detection, with a view towards anti-fraud</i>	9:30 – 10:20 Maria Groppi (online) University of Parma <i>Some challenging problems in biomathematics</i>	10:00 – 10:50 Rémi Abgrall University of Zurich <i>On the interplay between applied mathematics, scientific computing, mechanics and computer sciences: two examples in fluid mechanics</i>
10:50 – 11:40 Giuseppe Falci University of Catania <i>Emerging Technologies: the second Quantum Revolution</i>	10:20 – 11:10 Andrea de Gaetano IRIB CNR <i>Non-local stochastic models and their identification</i>	10:50 – 11:40 Alfredo Soldati (online) TU, Wien <i>Modelling and Computation of Interfaces in Turbulent Multiphase Flows</i>
COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
12:00 – 12:30 Gabriella Colajanni and Daniele Sciacca University of Catania <i>A stochastic network-based optimization model for 5G Coverage with UAV</i>	11:30 – 12:20 Fabio Bagarello University of Palermo <i>Recent Applications of ladder operators in biological systems and in pandemics</i>	12:00 – 12:50 Ilya Peshkov (online) University of Trento <i>Symmetric hyperbolic equations for dissipative continuum mechanics</i>
	12:20 – 12:50 Giovanni Nastasi University of Catania <i>Mathematical models for the spread of COVID-19</i>	12:50 – 13:20 Emanuele Macca University of Catania <i>Adaptive finite-difference well-balanced scheme for systems of balance laws</i>
LUNCH	LUNCH	
15:00 – 15:50 Giuseppe Nicosia University of Catania <i>An introduction to deep-learning</i>	15:00 – 15:50 Roberto Paolesse University of Rome Tor Vergata <i>Porphyryns Through the Looking Glass of Chemical Sensor Applications</i>	
15:50 – 16:40 Francesco Oliveri University of Messina <i>Operatorial models for cooperation and competition between spatially distributed populations</i>	15:50 – 16:40 Salvatore Sortino University of Catania <i>Shedding light on nanomedicine: photoactivated nanoconstructs for Innovative therapeutic modalities</i>	