

MONDAY 10th

When	What	Presenting author	Affiliation	Chair
9:30	Welcome and Introduction	Marco MINIACI & Anastasiia KRUSHYNSKA	Workshop organizers	M. Miniaci & A. Krushynska
9:50	Independent Tuning of Elastic Metamaterial Properties: Theory and Applications	Prof. Yoon Young KIM	National Seoul University	
10:40	Coffee break			
11:00	Locally Resonant Metalenses for Lamb and Rayleigh Waves in Plates and Half-spaces	Marie Curie Fellow Andrea COLOMBI	Imperial College of London	Marco Miniaci
11:30	High-Contrast Resonators and 3D-Periodic Foundations Endowed with Wide Band Gaps for the Seismic Protection of Fuel Storage Tanks: part 1	Prof. Alexander MOVCHAN	University of Liverpool	
12:00	High-Contrast Resonators and 3D-Periodic Foundations Endowed with Wide Band Gaps for the Seismic Protection of Fuel Storage Tanks: part 2	Prof. Oreste Salvatore BURSI	University of Trento	
12:30	Large-scale Mechanical Metamaterials as Seismic Shields	Dr. Federico BOSIA	University of Torino	
13:00	Towards the Design of Highly Dissipative Low-frequency Metamaterials: the k-Damping Concept	Prof. Ioannis ANTONIADIS	National Technical University of Athens	
13:30	Lunch break			
14:30	Dissipative Acoustic Metamaterials with Sub-wavelength Band Gaps	Marie Curie Fellow Anastasiia KRUSHYNSKA	University of Torino	Federico Bosia
15:00	Pillar Structures for Acoustic Metamaterials and Phononic Crystals	Prof. Yan PENNEC	University of Lille	
15:30	Bio-inspired Mechanical Metamaterials	Marie Curie Fellow Marco MINIACI	University of Le Havre	
16:00	Coffee break			
16:20	Modeling Wave Propagation in Non-local Band-gap Metamaterials via the Relaxed Micromorphic Model	Prof. Angela MADEO	Institut National des Sciences Appliquées de Lyon	Anastasiia Krushynska
16:50	Homogenization of Structured Media	Prof. Richard CRASTER	Imperial College of London	
17:20	Real Wave Propagation in Metamaterials	Prof. Patrizio NEFF	University of Duisburg-Essen	
17:50	Transformation Cloaking for Flexural Waves in Thin Plates	Prof. Michele BRUN	University of Cagliari	
19:45	Rendez vous at the hotel Albermonaco	Everybody :)		
20:15	Social dinner at Villa Madruzzo			

TUESDAY 11th

When	What	Presenting Author	Affiliation	Chair
9:30	Topological Physics: an Adventure from Quantum Condensed Matter to Photonics and Classical Mechanics	Prof. Jacopo CARUSOTTO	University of Trento	Nicola Pugno
10:00	Spin-orbit Coupling in a Hexagonal Ring of Pendula	Dr. Grazia SALERNO, Alice Berardi	University of Trento	
10:30	Cloaking of Flexural Vibrations in a Structured Plate: Numerical and Experimental Proof-of-Concept	Dr. Diego MISSERONI	University of Trento	
11:00	Coffee break			
11:20	An Innovative Metamaterial-based Device for the Passively Nonlinear Source Detection and Localization: Theoretical and Experimental Approach	Prof. Marco SCALERANDI	Politecnico of Torino	Davde Bigoni
11:50	Experimental Implementation of Tunable Piezoelectric Phononic Crystals	Prof. Bruno MORVAN	University of Le Havre	
12:20	The Layer-Multiple-Scattering Method Applied to Phononic Crystals Involving Complex Particles: some Recent Advances	Prof. Reveka SAINIDOU	University of Le Havre	
12:50	Large-amplitude Nonlinear Waves in Elastic Metamaterials	Prof. Mahmoud HUSSEIN	University of Colorado Boulder	
13:20	Lunch break			
14:30	Elastic Waves in Finitely Deformed Microstructured Materials	Prof. Stephan RUDYKH	Israel Institute of Technology	Marco Miniaci & Anastasiia Krushynska
15:00	Ultrasensitive Characterization of Mechanical Oscillations and Plasmon Energy Shift in Gold Nanorods	Dr. Maria Fiorella PANTANO	University of Trento	
15:30	Folding and Faulting Waves in Cosserat Elasticity	Prof. Davide BIGONI	University of Trento	
16:00	On Other (non Meta) Extreme Materials Investigated in Trento	Prof. Nicola PUGNO	University of Trento	
16:30	Closing remarks and future outlook	Profs. Nicola Pugno and Davide Bigoni	University of Trento	