

3:50

4:10

4:30

Karina M. Landivar Zambrana: Bridging theory and experiment for design and functionalization

Petru Milev: Modelling excitons and magnons in complex materials: efficient algorithms, GGA kernels,

Francesca S. Maddaloni: Innovative approaches in

photon-counting computed tomography: from image quality characterization to preliminary contrast media

of defects in 2D materials

and non-equilibrium dynamics

investigations

## 1ST YEAR PHD STUDENTS' WORKSHOP

## **SEPTEMBER 25 AND 26, 2025**

SALA CONSIGLIO - PHYSICS DEPARTMENT - VIA CELORIA 16 - MILAN

SEPTEMBER 25, 2025			SEPTEMBER 26, 2025	
	9:00 am	Welcome: Aniello Mennella		
	9:30	Chairperson: Aniello Mennella Eva D. Z. Groenendijk: Proton structure and high- precision calculations in QCD	-	son: Aniello Mennella Giulia Maineri: Probing dark photons via missing transverse momentum at the ATLAS detector
	9:50	Gabriele F. Sala: Transverse-momentum resummation in the Drell-Yan process	9:20	<b>Lorenzo A. Malanga</b> : Understanding protoplanetary disc evolution with population
	10:10	Alice Barcella: Standardized phantom-based approaches for image quality assessment and	rent and 9:40 Chiara D. Mascherpa: Dualities in 2d	synthesis <b>Chiara D. Mascherpa</b> : Dualities in 2d
	10:30	Al-driven quantification in digital mammography  Coffee Break	10:00	Stefano Radice: Developing neuromorphic computing and receptron networks
	10.00	Chairperson: Barbara Caccianiga	10:20	Coffee Break
	11:00	Laura Cadeo: Studying transport-related aerosol emissions through experimental and modelling cutting-edge approaches	10:50	Chairperson: Fabio Giavazzi Leonardo Raso: Semiclassical approach to nonadiabatic dynamics
	11:20	Rebecca Casati: Quantum computing methods for space and underwater domains	11:10	Giovanni Roncoli: Interferometry and AB effect with antiprotons
	11:40	Andrea Corti: Understanding feature learning in neural networks with statistical mechanics	11:30	Cecilia D. Almagioni: Snow cover: from the Alps to High Mountain Asia
	12:00	<b>Lorenzo Dal Fabbro</b> : Interaction of ionic liquids with biological systems	11:50	Varun Shah: Thermal forming of high-precision optics for the 'LiveMirror' project
	2:00 pm	Chairperson: Stefano Olivares  Davide Genna: Tracking the evolution of light nuclei toward the Island of Inversion at N = 20		
	2:20	Davide Alimonti: Accurate interatomic potentials for metallic nanoparticles from small datasets		
	2:40	Fatima Houria: JUNO commissioning phase: work on site and data analysis		
	3:00	Coffee Break		
	3:30	Chairperson: Alberto Pullia Niccolò Laurora: Characterization of a multi-mode quantum state for quantum computation with superconducting circuits		
		A C L VIII		