

PHD SCHOOL IN PHYSICS, ASTROPHYSICS AND APPLIED PHYSICS

The 1_{st} year students workshop of our PhD School will take place on 27_{th} and 30_{th} September 2024 at Sala Consiglio, Dept.Physics, via Celoria 16-Milano

27th SEPTEMBER 2024		30th SEPTEMBER 2024	
09:00	Welcome (A.Mennella)	-307	
300	Chairperson: A.Mennella		Chairperson: C.Barbieri
09:30	Enrico Augusto Maraboli: Mass profiles and orbits in clusters of galaxies.	09:00	Silvia Bressan: Electrical response of nanostructured devices to analog inputs.
9:50	Viviana Pezzotta: Planet-forming environments: investigating protoplanetary disks using gas kinematics.	09:20	Simone Codispoti: Liquid-liquid phase separation of nucleic acids and peptides: linking macroscopic properties to molecular features.
10:10	Luna Rampinelli: The astrochemical journey of building blocks of planets.	09:40	Davide Ripamonti: STudies of the effects of microbiologicAl growth on stone-air INterface of
10:30	Coffee Break	10.00	cultural heritage (STAINS) and artificial protectives.
11:00	Chairperson: A.Pullia Alessandro Ruzza: Planet hunting with DBNets:	10:00	Marco Maria Messa: Multiwavelength studies of binary millisecond pulsars.
	simulation-based inference of protoplanetary	10:20	Coffee Break
11:20	discs and embedded planets.	- Sept 20	Chairperson: F.Giavazzi
11:40	Luigi Zallio: Geometries, gas sizes and evolutionary scenarios of proto-planetary discs.	10:50	Concetta Santangelo: Characterization of lipid aggregates with Differential Dynamic Microscopy.
12:00	Matilde Barberi Squarotti: Mapping the large- scale structure of the Universe with neutral hydrogen intensity mapping.	11:10	Valeria Trabattoni: Study and characterization of electronics circuits at cryogenic temperature for the next generation neutrino experiment DUNE.
12:00	Simone Contu: Application of magneto-optical methods for the study of nanostructures with magnetic properties.	11:30	Lorenzo Apollonio: Amplifying UHECR arrival direction information at the Pierre Auger Observatory.
12:20	LUNCH BREAK	11:50	Stefano Brolli: Diagrammatic Monte Carlo for atomic nuclei.
S. C.	Chairperson: B.Caccianiga	12:10	LUNCH BREAK
14:00	Leticia Finger Basso: NO and CO mapping on metallic		
	nanoparticles: A step towards catalysis of harmful gases.	14.00	Chairperson: M.Giliberti
14:20	Ankita Ganguly: Detection of organic tissue discriminator using non-destructive approach in	14:00	Massimiliano Luciani: Searching for shape coexistence in Ca isotopes.
	VIS-NIR range.	14:20	Elisa Percalli: JUNO: an experiment on neutrino mass ordering.
14:40	Luca Nigro: Quantum computing for energy applications.	14:40	Riccardo Zanzottera: Silicon pixel detectors for future high energy physics experiments.
15:00	Coffee Break	15:00	Coffee Break
1000	Chairperson: M.Zaro	15100	Chairperson: A.Mennella
15:30	Jacob Yohanna Baro: Electronic friction and other non-adiabatic effects in sliding contacts via classical simulations.	15:30	Andrea Afify: Autonomous Agents in Unstructured Virtual Environments.
15:50	Alessandro Zambon: Sampling the solutions space of artificial neural networks.	15:50	Michele Dradi: Standard Model renormalization at $O(\alpha^2)$.
16:10	Paolo Zentilini: Emulating QAOA via Graph Neural Networks.	16:10	Pietro Glorioso: Microstates of holographic black holes.
16:30	Sofia Zinzani: Towards automated structural analysis: coalescence of metallic nanoalloys.	16:30	Paolo Luppi: Multi-time statistics and non- markovianity in open quantum systems.