Public Presentation at the Faculty of Physics Date: 30 September 2026
Place:Ernst-Mach-Lecture Hall, 2nd floor, Boltzmanngasse 5, 1090 Wien

Time Slot	Name	Topic	Supervisor
9:00-9:10	--	Introduction by Thomas Pichler	
9:10-9:25	Hufnagl, Stephan	Transport Dynamics of Chiral Active Matter in Complex Flow Environment	Zöttl, Andreas
9:25-9:40	Diaz Rozo, Laura Nathalia	Natural MOFs: Diversity via trivalent metal subsitiution and their optoelectronic properties and applications	Shiozawa, Hidetsugu
9:40-9:55	Boricha, Pietro	Non-reciprocal Dynamics in Interacting Many-Body Systems	Nunnenkamp, Andreas
9:55-10:10	Setescak, Alexander	Physics-Informed Tomographic Reconstruction of Chiral Magnetic Textures	ABERT, Claas
10:10-10:25	Gupta, Nancy	Engineering motional engtanglement between two leviatated masses via quantum optimal feeback control	Aspelmeyer, Markus
10:25-10:55	**Break**		
10:55-11:10	Wladika, Johannes	Tensor Network Symmetries of Three-dimensional Fracton Models	Schuch, Norbert
11:10-11:25	Baldwin, Ash	Electronic correlation effects in non-adiabatic dynamics at surfaces	Maurer, Reinhard
11:25-11:40	Mitrakos, Nikolaos	Observables and quantum coordinate transformations in the discrete and their application to table-top tests of quantum gravity	Christodoulou, Marios Aspelmeyer, Markus
11:40-11:55	Pils, Justin	Machine Learning methods for low temperature nuclear quantum effects in perovskites	Troester, Andreas Dellago, Christoph
11:55-12:25	**Winter, Lucas**	**Extensive mixed-state entanglement in kinetically constrained superradiance**	
12:25-13:25	LUNCH BREAK		
13:25-13:40	Spalvieri, Alberto	Quantum reference frames, measurement problem and gauge theories	Brukner, Caslav
13:40-13:55	Pelisson, Benoit	Towards gravitational entanglement: Development of a free-fall platform for magnetically levitated particles	Aspelmeyer, Markus
13:55-14:10	Janach, Marco	Ice nucleation on silver iodide studies using machine learnd potentials	Dellago, Christoph
14:10-14:25	Pretto, Francesca	Quantum field theory, moduli space of vacua in supersymmetric models and generalised symmetries	Sperling, Marcus
14:25-14:40	Horgan, Emma	Superconductor-Semiconductor hybrid devices in bilayer graphene	Banszerus, Luca
14:40-14:55	Llinas, Chiara	Accelerator Mass Spectrometry for Astrophysics	Golser, Robin
14:55-15:05	**Break**		
15:05-15:20	Mangano, Daniela (Cotutelle de these)	Nonadiabatic polaron dynamics	Franchini, Cesare Di Sante, Domenico (University of Bologna)
15:20-15:35	De Amicis, Samuele	Ab-initio Diagrammatic Monte Carlo study of polarons in real materials	Franchini, Cesare
15:35-15:50	Kohminaei, Danial	Mof-Based Materials for Sustainable Energy Conversation and Storage	Shiozawa, Hidetsugu
15:50-16:05	Bernardinetti, Matteo	Ab initio study of dipole-octupole pyrochlores and the search for quantum spin ice	Franchini, Cesare