Public Presentation at the Faculty of Physics Date: 28 September 2022

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	Salazar Mejia Joshua Matheo	Analysis and design of magnetic field sensors with zero-offset using Spin-Orbit-Torque (SOT) effects	Süss, Dieter
9:25-9:40	Ragni Stefano	Anharmonic Polaron Hamiltonians by Quantum Diagrammatic Monte Carlo	Franchini, Cesare
9:40-9:55	Ruffa Ines	Differential treatment of boosted top quark decays	Hoang, André H.
9:55-10:10	Medina Sanchez Nicolas	Information theoretic foundations of quantum theory	Dakic, Borivoje
10:10-10:40		**Highlightvortrag**	
10:40-11:10	COFFEE BREAK		
11:10-11:25	Schmiedmayer, Bernhard	Derivative learning for tensorial quantities: IR spectra from first principles	Kresse, Georg
11:25-11:40	Joudi Wael	Direct correlation between the exact atomic structure of 2D materials and their macroscopic properties	Kotakoski, Jani
11:40-11:55	Zykov, Ilia	Development of the Optical Near-field Electron Microscope and ist application in lipids dynamics study	Juffmann, Thomas
11:55-12:10	Ranalli Luigi	Ab-initio calculations for anharmonic polarons in hydrides	Franchini, Cesare
12:10-12:40		**Highlightvortrag**	
12:40-13:40	LUNCH BREAK		
13:40-13:55	Corrias Marco	Computer vision techniques for processing and analysis of surface microscopy images	Franchini, Cesare
13:55-14:10	Bengyat Ofek	Gravity Induced entanglement and ist Implications about quantum gravity	Brukner, Caslav Christodoulou, Marios (Mitbetreuung ?)
14:10-14:25	Matthewman, Marc Nicholas	Particle Shower Reconstruction in High Multiplicity Environments	Waltenberger, Wolfgang Brondolin, Erica (Cern)
14:25-14:40	Humer, Moritz	Auxiliary Field Quantum Monte Carlo Method in the Projector Augemented-Wave Method	Kresse, Georg
14:40-14:55	Jafarian, Hanieh	High-resolution Imaging of Surface Dynamics	Juffmann, Thomas