Public Presentation at the Faculty of Physics Date: 22 February 2024 Place: Josef-Stefan-Lecture Hall, 3rd floor, Boltzmanngasse 5, 1090 Wien			
Time Slot	**Name**	**Topic**	**Supervisor**
9:00-9:10	--	Introduction by Markus Arndt	
9:10-9:25	Afghahi Farimani, Reyhaneh	Topological defects in systems with logarithmic interactions, and Topological polymers out-of-equilibrium	Likos, Christos
9:25-9:40	Claessen, Remi Louis Yves	Optimisation of apparatus and design of readout mechanism for a magnetically levitated superconducting system for use in macroscopic quantum protocols	Aspelmeyer, Markus
9:40-9:55	Egyed, Livia Hannah	Multipartite entanglement of optically levitated nanoparticles	Aspelmeyer, Markus
9:55-10:10	Bajo, Josip	Two dimensional materials as a building blocks of photonic quantum technologies	Walther, Philip
10:10-10:25	Hansen, Jannek Jonas	Optical readout of a magnetically levitated superconductor achieving quantum control of a microgram high Q mechanical object	Aspelmeyer, Markus
10:25-10:40	Hurt, Jan	Dynamics of socioconomic networks with interdisciplinary applications	Klimek, Peter Thurner Stefan
10:40-11:10	**Break**		
11:10-11:25	Khodaee, Ayub	Entanglement of optically leviated sub-micron particles via Coulomb force	Aspelmeyer, Markus
11:25-11:40	Selimovic, Mirela	Quantum machine learning with novel quantum photonic architectures	Walther, Philip
11:40-11:55	Camarena Chavez, Victor Alonso	Experimental demonstration of quantum states of motion in optically levitated nanoparticles	Aspelmeyer, Markus
11:55-12:10	Giorgino, Francesco	Quantum information processing based on quantum dots single-photon sources	Walther, Philip
12:15	**Lunch**		