Session Program

19-22 Sept 2022

Machine Learning in Natural Sciences: from Quantum Physics to Nanoscience and Structural Biology

Quantum Many-Body States

CFEL (Building 99), Seminarraum 1-3 Luruper Chaussee 149 22761 Hamburg Germany

Tuesday 20 September

09:00	Quantum Many-Body States Session Location: CFEL (Building 99), Seminarraum 1-3, Luruper Chaussee 149 22761 Hamburg Germany
	09:00-09:45 Insights into quantum many-body systems through Hamiltonian reconstruction Speaker Dr Annabelle Bohrdt
	09:45-10:15 Solving quantum and classical dissipative dynamics with artificial neural networks Speaker Martin Gärttner
15:00	Quantum Many-Body States Session Location: CFEL (Building 99), Seminarraum 1-3, Luruper Chaussee 149 22761 Hamburg Germany
	15:00-15:15 Physical Parametrisations of Mixed Quantum States with Deep Neural Networks Speaker Filippo Vicentini
	15:15-15:30 Machine learning of thermodynamic observables in lattice quantum field theory Speaker Kim Nicoli
	15:30-15:45 Unraveling Quantum Scrambling with Neural Networks Speaker Jan Olle
	16:00-16:45 Data-Enhanced Variational Monte Carlo with Neural Network Quantum States Speaker Dr Stefanie Czischek
16:45	