

Session Program

Sep 19 - 22, 2022

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

Poster Session

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

Mon, September 19

6:00 PM

Poster Session

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

Quantum magnetic skyrmions using neural network quantum states

Speaker

Ashish Joshi

Machine learning parameters of attosecond pulses based on photoelectron momentum distributions

Speaker

Tomasz Szoldra

Continuous Machine Learning with generated radio galaxy data

Speaker

Florian Griese

SciFi: An Embedded Asset Store to Organize and Optimize Data Files for Machine Learning

Speaker

Martin Poppinga

Classification of quantum phases with quantum machine learning

Speaker

Ms Teresa Sancho-Lorente

Building separable approximations for quantum states via neural networks

Speaker

Antoine Girardin

Object detection on GaN quantum wells SEM images incorporating YOLO network Model

Speaker

Mr Mahdi Khalili Hezarjaribi

Estimating the entangling power of a two-qubit gate from measurement data: artificial neural networks versus standard tomography methods

Speaker

Salwa Shaglel

Utilising charge state distributions for calibration of intense XFEL pulses with Bayesian optimisation

Speaker

Niels Breckwoldt

Adding connections in a restricted Boltzmann machine and testing the Regularized Axons family in deeper architectures

Speaker
Eloy Piñol Jimenez

Neural quantum states for the simulation of nonequilibrium quantum systems

Speaker
Damian Hofmann

Topological characterization of dynamic chiral magnetic textures using machine learning

Speaker
Tim Matthies

9:00 PM

Wed, September 21

6:00 PM

9:00 PM

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