

## **Session Program**

**19-22 Sept 2022**

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

## **Nano and Material Science**

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

# Monday 19 September

16:30

## Nano and Material Science

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

16:30–17:15

### Machine Learning for Accelerated Molecular Discovery

**Speaker**

Prof. Pascal Friederich

17:15–17:30

### Robust Image Descriptor for Machine Learning based Data Reduction in Crystallography

**Speaker**

Dr Vahid Rahmani

17:30–17:45

### PeakNet: Peak Finding for Serial Crystallography

**Speaker**

Shah Nawaz

18:00

## Wednesday 21 September

16:30

### Nano and Material Science

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

16:30–17:15

#### Autonomous Materials Research and Discovery at NIST

**Speaker**

Prof. Aaron Gilad Kusne

17:15–17:30

#### Deep Learning for Topological Materials

**Speaker**

Dr Marcin Płodzień

18:00