

## **Session Program**

**Sep 25 - 26, 2024**



# **10th bwHPC Symposium**

## **Scientific Presentations**

University of Freiburg, Platz der Universität 3  
Kollegiengebäude 1 (KG1) HS1010 (25.09.), AULA (26.09) <https://uni-freiburg.de/lageplaene/>

# Wed, September 25

1:50 PM

## Scientific Presentations: Block 1

**Session** | **Location:** KG1, HS1010

13:50 – 14:10

### Theoretical investigations on the catalytic pathway of unspecific peroxygenases in the context of biocatalysis

#### Speaker

Hanna-Friederike Poggemann

14:10 – 14:30

### Nonequilibrium Phenomena in Many-Body Quantum Systems

#### Speaker

Samuel Rudge

2:30 PM

3:10 PM

## Scientific Presentations: Block 2

**Session** | **Location:** KG1, HS1010

15:10 – 15:30

### Phenomic Prediction - Optimization of NIRS preprocessing

#### Speaker

Vincent Braun

15:30 – 15:50

### Finding unbinding pathways in protein ligand systems

#### Speaker

Miriam Jäger

15:50 – 16:10

### Belle II on NEMO: Flavour and Dark Matter Physics

#### Speaker

Matthias Schnepf

16:10 – 16:30

### Deepnetworks for reviving and accumulating experimental animal data: From Matlab to Python

#### Speaker

David Eriksson

4:30 PM

5:00 PM

## Scientific Presentations: Block 3

**Session** | **Location:** KG1, HS1010

17:00 – 17:20

### KI-Morph - User-friendly large-scale image analysis & AI on bwHPC systems

#### Speaker

Alexander Zeilmann

17:20 – 17:40

### New ML-based analysis techniques in fundamental physics

#### Speaker

Nathan Huetsch

17:40 - 18:00

**Technology of the Hunter System and Porting Strategy towards APU enabled portable engineering codes**

**Speaker**

Björn Dick

6:00 PM

## Thu, September 26

9:30 AM

### Scientific Presentations: Block 4

**Session** | **Location:** KG1, Aula

09:30 – 09:50

#### Thermographic and Energy Efficiency Analysis of Server Components under Variable Load Conditions

##### Speakers

Benjamin Ott, Nicola Schuckert

9:50 AM

11:00 AM

### Scientific Presentations: Block 5

**Session** | **Location:** KG1, Aula

11:00 – 11:20

#### Considerations on dynamic energy management in HPC systems in connection with the waste heat utilization of the data center

##### Speaker

Norbert Conrad

11:20 – 11:40

#### The use of computational chemistry in chemistry: A brief overview with exemplary case studies

##### Speaker

Ingo Krossing

11:40 – 12:00

#### High Performance Computing infrastructure for Particle Physics: The Experience of the Karlsruhe groups

##### Speaker

Sebastian Brommer

12:00 PM