

## **Session Program**

**11-13 Dec 2024**



# **WLCG Environmental Sustainability Workshop**

## ***Workloads and Metrics***

CERN, 31/3-004 - IT Amphitheatre

# Thursday 12 December

11:50

## Workloads and Metrics

**Session** | **Location:** CERN, 31/3-004 - IT Amphitheatre | **Convener:** Markus Schulz

11:50-12:05

### The Role of the HEP Benchmark Suite in Measuring Performance to Support Sustainability in High-Energy Physics Computing

**Speaker**

Domenico Giordano

12:10-12:25

### Calorimetric simulation with quantum computers: the energy perspective

**Speaker**

Wojtek Fedorko

12:30

13:30

## Workloads and Metrics

**Session** | **Location:** CERN, 31/3-004 - IT Amphitheatre | **Convener:** Simone Campana

13:30-13:45

### Energy Sustainability in Artificial Intelligence

**Speaker**

Dr Sofia Vallecorsa

13:50-14:05

### FlashSim at CMS: performance and resources of deep learning based simulation for HEP

**Speaker**

Francesco Vaselli

14:10-14:25

### Accelerating Monte-Carlo event generation on CPUs and GPUs

**Speaker**

Daniele Massaro

14:30-14:45

### Power efficiency gains from GPU optimised workloads with Geant4 based detector simulations

**Speaker**

Dr Albert Gyorgy Borbely

14:50