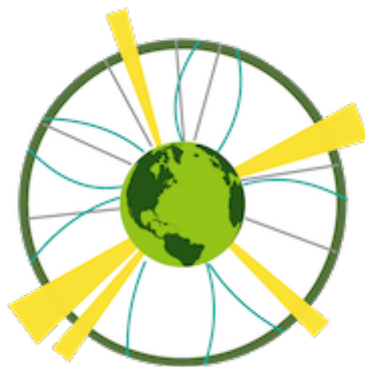**Session Program**

12–15 May 2025

Sustainable HEP 2025 — 4th Edition

Submitted Talks

Online

Wednesday 14 May

09:15

Submitted Talks
Session | **Location:** Online

09:15–09:30 **Countering the biodiversity loss using particle physics research sites**

Speaker
Julien Faivre

09:30–09:45 **Sustainable Science: ATLAS Computing Practices in South Africa**

Speaker
Deepak Kar

09:45

10:00

Submitted Talks
Session | **Location:** Online

10:00–10:15

Longevity and eco-gas studies in the CMS cathode strip chamber muon detector

Speaker
Collin Arbour

10:15–10:30 **CEPC development towards a sustainable green Higgs factory**

Speaker
Jie Gao

10:30–10:45 **Computing at the Exascale, CERN IT's Approach to Sustainability**

Speaker
Markus Schulz

10:45–11:00 **The future of HEP Work at the DESY data-centre**

Speaker
Dr Dwayne Spiteri

11:00–11:15 **Eco-Friendly Resistive Plate Chamber detectors for HEP**

Speaker
RPC EcoGas@GIF++ Collaboration

11:15

12:00

Submitted Talks
Session | **Location:** Online

12:00–12:15

Electron identification using eco-friendly gas mixture for the future ALICE 3 bRICH detector at LHC

Speaker
Nicola Nicassio

12:15–12:30 **Resource-aware Research on Universe and Matter in Germany**

Speaker
Thomas Kuhr

12:30–12:45 **Sustainability Studies for Future Linear Colliders**

Speaker
Dr Benno List

12:45–13:00 **Sustainability Assessment of future large research infrastructures**

Speaker
Caterina Bloise

13:00–13:15

HALHF - A hybrid, asymmetric, linear Higgs factory based on plasma-wakefield and radio-frequency acceleration

Speaker
Richard D'Arcy

13:15–13:30

Research organisations as a paradigm for a novel form of economic stakeholder

Speaker
Prof. Michael Dueren

13:30

Thursday 15 May

11:00

Submitted Talks
Session | **Location:** Online

11:00–11:15

Longevity studies with full-scale CMS cathode strip chambers using gas mixtures with reduced CF4 content

Speaker
Shaowei Song

11:15–11:30   **Sustainability studies of big data processing in real time for HEP**

Speaker
Volodymyr Svintozelskyi

11:30–11:45   **Green software in HEP: benchmarks and studies on MC generators**

Speaker
Luis Villar

11:45–12:00   **Efficient Computing with the ALICE Event Processing Nodes GPU farm**

Speaker
Federico Ronchetti

12:00–12:15

Innovative Approaches to Methane Capture: From CERN's Greenhouse Gas Reduction Strategies to Sustainable Livestock Emissions Management

Speaker
Ilaria Vai

12:15

12:30

Submitted Talks
Session | **Location:** Online

12:30–12:45   **Green Cherenkov gas radiators**

Speaker
Gregory Hallewell

12:45–13:00

Enhancing the light and weakly coupled new physics program at FCC with sustainable alternatives

Speaker
Rhitaja Sengupta

13:00–13:15   **Recuperation plants for fluorinated gas at the CERN LHC Experiments**

Speaker
Maria Cristina Arena

13:15–13:35

The environmental impact, carbon and sustainability of computing in the ATLAS experiment

13:40

Speaker
Zach Marshall