

## Session Program

18-22 May 2026



## 14th Edition of the Large Hadron Collider Physics Conference (LHCP 2026)

### *Parallel : Performance and ML/AI*

CICSU, Auditorium

Centre de conférences internationales - Sorbonne Université 4 Place Jussieu, 75005 Paris

# Wednesday 20 May

11:00

## Parallel : Performance and ML/AI

**Session** |

**Location:** CICSU, Room 109, Centre de conférences internationales - Sorbonne Université 4 Place Jussieu, 75005

**Co-conveners:** Flo Reiss, Bingxuan Liu, Mesut Arslandok, Tilman Plehn, Anna Benecke

11:00-11:18

### Model agnostic data reinterpretation at LHCb

**Speaker**

Marco Colonna

11:18-11:36

### Run 3 object performance ATLAS

**Speaker**

Christos Anastopoulos

11:36-11:54

### Variance reduction with Normalizing Flows

**Speaker**

Rene Poncelet

11:54-12:12

### Run 3 object performance ALICE

**Speaker**

Christian Sonnabend

12:12-12:30

### Run 3 object performance LHCb

**Speaker**

Pol Vidrier Villalba

12:30

14:00

## Parallel : Performance and ML/AI

**Session** |

**Location:** CICSU, Room 107, Centre de conférences internationales - Sorbonne Université 4 Place Jussieu, 75005

**Co-conveners:** Mesut Arslandok, Tilman Plehn, Anna Benecke, Flo Reiss, Bingxuan Liu

14:00-14:18

### ML-based calibration derivation

**Speaker**

Simone Francescato

14:18-14:36

### Run 3 object performance CMS

**Speaker**

Irene Andreou

14:36-14:54

### Simulation based inference

**Speaker**

Rafael Coelho Lopes De Sa

14:54-15:12

### ML and Uncertainty-Aware SBI

**Speaker**

Lisa Benato

15:12-15:30

### ML-bump-hunt anomalies

15:30

**Speaker**  
Louis Moureaux

## Thursday 21 May

11:00

### Parallel : Performance and ML/AI

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**Co-conveners:** Bingxuan Liu, Flo Reiss, Tilman Plehn, Mesut Arslandok, Anna Benecke

11:00-11:18 **ML and MadGraph**

**Speaker**

Theo Heimel

11:18-11:36 **ML and Detector Simulation**

**Speaker**

Lorenzo Valente

11:36-11:54 **ML and Hadronization**

**Speaker**

Ayodele Ore

11:54-12:12 **ML and Unfolding**

**Speaker**

Dr Sascha Diefenbacher

12:12-12:30

### Usage of GPUs for ALICE Reconstruction in the ALICE Online Compute farm and in the Grid

**Speaker**

David Rohr

12:30

14:00

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14:00-14:18

### New strategies to trigger (including Scouting, geometric triggers, ML-trigger,...)

**Speaker**

Daina Leyva Pernia

14:18-14:36 **Novel approaches to triggering and event selection in LHCb**

**Speaker**

Miguel Fernandez Gomez

14:36-14:54 **ML particle flow**

**Speaker**

Farouk Mokhtar

14:54-15:12

### Space-Charge Distortion Calibration in the ALICE TPC: A Multidimensional Approach

**Speaker**  
Matthias Kleiner

15:12-15:30 **ML-based tagger development**

**Speaker**  
Romain Bouquet

15:30