

Session Program

4-9 May 2025

May 5-9, 2025

LHCP *TAIPEI*
2025

**13th Edition of the Large Hadron Collider
Physics Conference**

Shared Session

Monday 5 May

14:00

Shared Session: QCD Physics + Heavy Ion Physics

Session | Location: Locke

14:00–14:18

Overview of recent jet nuclear modification and medium response measurements

Speaker

Dr Yi Chen

14:18–14:36

Overview of recent EEC results in AA, pA, and pp

Speaker

Mateusz Ploskon

14:36–14:54

Phenomenological overview of jets in QGP (Jetscape)

Speaker

Chathuranga Sirimanna

14:54–15:12

Recent theoretical developments on jets as QGP probes and idea for a next generation of jet measurements

Speaker

Xoán Mayo López

15:12–15:30

Overview of recent jet substructure measurements (discussion)

Speakers

Cristian Baldenegro, Mateusz Ploskon, Riccardo Longo

15:30–15:50

Discussion

15:50

Tuesday 6 May

13:40

Shared Session: QCD Physics + Flavor Physics
Session | **Location:** Forum | **Conveners:** Alessandro Grelli, Miha Muskinja

13:40-14:03 **Heavy flavour results from ATLAS**

Speaker
 Yue Xu

14:03-14:21 **Heavy flavor spectroscopy at CMS**

Speaker
 Taeun Kwon

14:21-14:39 **Heavy flavor spectroscopy studies at LHCb**

Speaker
 Linxuan Zhu

14:39-14:57 **Heavy flavor hadronisation at ALICE (pp collisions)**

Speaker
 Luca Aglietta

14:57-15:30 **Discussion**

15:30

Thursday 8 May

13:40

Shared Session: BSM-1 + BSM-2: Dark sectors

Session | **Location:** Socrates | **Conveners:** Jackson Carl Burzynski, Titus Mombächer

13:40–13:58 **Results for prompt dark sector mediators from ATLAS**

Speaker

Stefano Franchellucci

13:58–14:16 **Results for prompt dark sector mediators from CMS**

Speaker

Mariia Savina

14:16–14:34 **Theory overview of dark QCD**

Speaker

Prof. Matthew James Strassler

14:34–14:52 **ATLAS results on dark QCD signatures**

Speaker

Sukanya Sinha

14:52–15:10 **CMS results on dark QCD signatures**

Speakers

Cesare Cazzaniga, Cesare Tiziano Cazzaniga

15:30

13:40

Shared Session: Higgs Physics + Top Physics

Session | **Location:** Forum | **Conveners:** Matthias Kerner, Ludovic Michel Scyboz

13:40–13:58 **ttH+th measurements from ATLAS**

Speaker

Linghua Guo

13:58–14:16 **ttH+th measurements from CMS**

Speaker

Jan van der Linden

14:16–14:34 **Sensitivity to CP-violating effective couplings in the top-Higgs sector**

Speaker

Victor Miralles

14:34–14:52 **ttbar+heavy flavor measurements from ATLAS**

Speaker

Denys Timoshyn

14:52–15:10 **ttW+ttZ measurements from CMS**

Speaker

David Marcus E Marckx

15:30

15:10-15:28

Top-quark pair production as a probe of light top-philic scalars and anomalous Higgs interactions

Speaker

Davide Pagani

13:40

Shared Session: Performance+Upgrades

Session | **Location:** Davinci

13:40-13:58

Storage Data Skimming Challenges in Run 4

Speaker

Emma Torro Pastor

13:58-14:16

The LHCb Upgrade II: design and performance

Speaker

Fionn Bishop

14:16-14:34

ALICE upgrades during LS3: ITS3 and FoCal

Speaker

Ken Oyama

14:34-14:52

The ATLAS Inner Tracker upgrade project and performance

Speaker

Hideyuki Oide

14:52-15:10

Status of HL-LHC upgrade for CMS

Speaker

Stathes Paganis

15:30

15:10-15:28

Performance of LHC upgrade

Friday 9 May

10:45

Shared Session: BSM-2+Future Projects: Dedicated search experiments

Session | **Location:** Raphael | **Conveners:** Titus Mombächer, Jackson Carl Burzynski

10:45-11:03 **Theory opportunities for dedicated search experiments**

Speaker

Yu-Dai Tsai

11:03-11:21 **SHiP status and prospects**

Speaker

Iaroslava Bezshyiko

11:21-11:39 **FASER status and prospects**

Speaker

Shih-Chieh Hsu

11:39-11:57 **CODEX-beta status and prospects**

Speaker

Pablo Eduardo Menéndez-Valdés Pérez

11:57-12:15 **pro-Anubis status and prospects**

Speaker

Luca Pizzimento

12:15

10:45

Shared Session: QCD+EW

Session | **Location:** Locke | **Convener:** Miha Muskinja

10:45-11:03 **Measurements of the Weinberg angle at ATLAS, CMS and LHCb**

Speaker

Miguel Ramos Pernas

11:03-11:21 **Measurements of the W mass at ATLAS, CMS and LHCb**

Speaker

Francesco Tenchini

11:21-11:39

Differential inclusive single W/Z (also off-shell) measurements sensitive to PDFs and EFTs at ATLAS, CMS, and LHCb

Speaker

Zhiqing Philippe Zhang

11:39-11:57

Higher order EW corrections (combination of EW and QCD corrections)

Speaker

Alessandro Vicini

11:57-12:15

Vector boson plus heavy flavor measurements at ATLAS, CMS, and LHCb

12:15

Speaker
Davide Zuliani