

**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

15:50

15:30–15:50

**Discussion**



## 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

#### $t\bar{t}H$ measurements from ATLAS

##### Speaker

Linghua Guo

13:58–14:16

#### $t\bar{t}H$ 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

#### $t\bar{t}b\bar{b}$ heavy flavor measurements from ATLAS

##### Speaker

Denys Timoshyn

14:52–15:10

#### $t\bar{t}W$ 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