

Session Program

5-9 May 2025

May 5-9, 2025

LHCP *TAIPEI*
2025

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

Plenary

Monday 5 May

09:00

Plenary: Opening Session 1 Session

09:00–09:10 **Welcome**

09:10–09:30 **Status of the LHC**

09:30–09:55 **ALICE status and overview**

Speaker

David Dobrigkeit Chinellato

09:55–10:20 **LHCb status and overview**

Speaker

Maria Vieites Diaz

10:20

10:50

Plenary: Opening Session 2 Session

10:50–11:05 **Report from the LHC experiments' young scientist forums**

11:05–11:20 **Diversity and inclusion**

Speaker

Eliot Jane Walton

11:20–11:35 **Outreach**

Speaker

Steven Goldfarb

11:35–12:05 **ATLAS status and overview**

Speaker

Chris Malena Delitzsch

12:05–12:35 **CMS status and overview**

Speaker

Anadi Canepa

12:35

16:20

Plenary: Higgs Boson Physics Session

16:20–16:45 **Precision Higgs Physics**

Speaker

Matthias Kerner

16:45–17:10 **HH production at LHC**

Speaker

Arely Cortes-Gonzalez

17:10-17:35

Measurement of Higgs boson production and properties**Speaker**

Matthias Saimpert

17:35-18:00

BSM with the Higgs**Speaker**

Prof. Shinya KANEMURA

18:00-18:25

Search for rare Higgs boson decays and BSM Higgs**Speaker**

Chia-Ming Kuo

18:30

Tuesday 6 May

09:00

Plenary: Heavy Ion Physics

Session

09:00–09:25

Recent developments in Heavy Ion Physics

Speaker

Alba Soto Ontoso

09:25–09:50

Particle production and collectivity from small to large collision systems

Speaker

Dr Imanol Corredoira Fernandez

09:50–10:15

Ultraperipheral heavy-ion collisions

Speaker

Andrea Giovanni Riffero

10:15

16:00

Plenary: Searches

Session

16:00–16:25

BSM theory perspectives for Run 3 and beyond

Speakers

Michael Spannowsky, Michael Spannowsky

16:25–16:50

Searches for LLPs and FIPs

Speaker

Slava Valouev

16:50–17:15

Resonances searches

Speaker

Sara Alderweireldt

17:15–17:40

Non-resonant searches at TeV scale

Speaker

Yuta Takahashi

17:40–18:05

Machine Learning for trigger, reconstruction and generation

Speaker

Dan Guest

18:10

Wednesday 7 May

09:00

Plenary: EW, Top, and QCD Physics 1 Session

09:00–09:25 **EW precision predictions and QCD-EW interplay for the LHC**

Speakers

Alessandro Vicini, Alessandro Vicini

09:25–09:50 **Precision and rare EW processes**

Speaker

Dr Francesco Giuli

09:50–10:15 **Precision top quark physics**

Speaker

Davide Pagani

10:15

10:45

Plenary: EW, Top, and QCD Physics 2 Session

10:45–11:10 **Top measurements and rare ttX processes**

Speaker

Andreas Werner Jung

11:10–11:35 **Improvements in QCD predictions**

Speaker

Pier Francesco Monni

11:35–12:00 **QCD measurements in pp collisions**

Speaker

Meena Meena

12:00

Thursday 8 May

09:00

Plenary: Flavor and CKM

Session

09:00–09:25

Flavor physics in the era of Precision Physics at the (HL)LHC

Speaker

Zoltan Ligeti

09:25–09:50

CKM matrix and CP violation

Speaker

Frederic Machefert

09:50–10:15

Rare decays and lepton flavour studies at the LHC

Speaker

Michele Atzeni

10:15

16:00

Plenary: Upgrade

Session

16:00–16:25

CMS upgrades

Speaker

Antonello Pellecchia

16:25–16:50

ATLAS upgrades

Speaker

Clement Camincher

16:50–17:15

ALICE upgrades

Speakers

Min Jung Kweon, Min Jung Kweon

17:15–17:40

LHCb upgrades

Speaker

Elena Dall'Occo

18:10

Friday 9 May

09:00

Plenary: QCD & Spectroscopy

Session

09:00–09:25

Investigating interactions in the quark-gluon plasma with high pT and heavy flavour

Speaker

Deepa Thomas

09:25–09:50

Hadron interactions and spectroscopy

Speaker

Georgy Kornakov

09:50–10:15

LQCD for precision flavor, QCD spectroscopy

Speaker

Takashi Kaneko

10:15

16:00

Plenary: Afternoon session 3

Session

16:00–16:25

Machine Learning for physics studies

Speaker

Dr Claudius Krause

16:25

16:25

Plenary: Closing Session

Session

16:25–16:55

Cosmological Collider Physics

Speaker

Prof. Daniel Baumann

16:55–17:25

Experimental overview

Speaker

Paul Jackson

17:25–17:55

Theory overview

17:55–18:05

LHCP International Advisory Committee report

18:05–18:10

Closing remarks

18:35