

Session Program

20-24 Oct 2025



SEARCH conference

Session

CERN, 500/1-001 - Main Auditorium

Monday 20 October

14:00
15:30
16:00
17:30

Session: Opening session: Theory Session Location: CERN, 500/1-001 - Main Auditorium	
14:00-14:45	Theory landscapes - the future
14:45-15:30	Discussion
Session: Opening session: Experiment Session Location: CERN, 500/1-001 - Main Auditorium	
16:00-16:45	New experimental capacities, new potential, the new state-of-the art
16:45-17:30	Discussion

Tuesday 21 October

09:00

Session: Breakthroughs in experimental capacities

Session | **Location:** CERN, 500/1-001 - Main Auditorium

09:00–09:25 **New approaches in reconstruction and analysis**

09:30–09:55 **Back to the detector - AI and improvements to the inputs**

10:00–10:30 **Discussion**

10:30

11:00

Session: Theory landscapes

Session | **Location:** CERN, 500/1-001 - Main Auditorium

11:00–11:25 **Theory motivations - Hierarchy problem**

11:30–11:55 **What are the capabilities the LHC would need to get theorists excited**

12:00–12:30 **Discussion**

12:30

16:00

Session: The unconventional

Session | **Location:** CERN, 500/1-001 - Main Auditorium

16:00–16:25 **The long-lived and unconventional theory landscape**

16:30–16:55 **Unconventional particles and new capacities**

17:00–17:30 **Discussion**

17:30

Wednesday 22 October

09:00

Session: Putting precision and searches together

Session | **Location:** CERN, 500/1-001 - Main Auditorium

09:00–09:25

Theory overview on SMEFT, direct searches in the tails

09:30–09:55

Direct vs indirect search probes (Higgs couplings, extended Higgs)

10:00–10:30

Discussion

10:30

11:00

Session: Precision and uncertainties

Session | **Location:** CERN, 500/1-001 - Main Auditorium

11:00–11:25

Our theory bottlenecks

11:30–11:55

Our upcoming biggest theory improvements

12:00–12:30

Discussion

12:30

16:00

Session: Flavor

Session | **Location:** CERN, 500/1-001 - Main Auditorium

16:00–16:25

Theory perspectives and flavor constraints to BSM

16:30–16:55

Experimental overview

17:00–17:30

Discussion

17:30

Thursday 23 October

09:00

Session: Synergies - Dark Sector

Session | **Location:** CERN, 500/1-001 - Main Auditorium

09:00–09:25

Theory opportunities - is there any room for WIMPs?

09:30–09:55

LHC experimental status (including forward detectors)

10:00–10:30

Discussion

10:30

11:00

Session: Synergies - Non-collider BSM

Session | **Location:** CERN, 500/1-001 - Main Auditorium

11:00–11:25

Theory perspectives

11:30–11:55

The LHC connection to current and planned non-collider experiments

12:00–12:30

Discussion

12:30

16:00

17:30

Session: Spontaneous topics

Session | **Location:** CERN, 500/1-001 - Main Auditorium

Friday 24 October

09:00

Session: Synergies - LHC and cosmology

Session | **Location:** CERN, 500/1-001 - Main Auditorium

09:00–09:25

Cosmology connection, phase transitions

09:30–09:55

Experimental searches for extended (light and heavy) scalars

10:00–10:30

Discussion

10:30

11:00

Session: HL-LHC and beyond

Session | **Location:** CERN, 500/1-001 - Main Auditorium

11:00–11:25

New opportunities at the HL-LHC and beyond

11:30–11:55

Theory landscape: What we will be talking about in 10 years?

12:00–12:30

Discussion

12:30