

## **Session Program**

**11-13 Nov 2024**

# **LHC TOP WG meeting**

## ***Session***

CERN, 40/S2-B01 - Salle Bohr

We will use 2 different rooms for this meeting: Monday (11/11) afternoon 14:00 - 18:00: 28/S-029  
Tuesday (12/11) morning 9:00 - 13:00: Salle Bohr 40/S2-B01 Tuesday afternoon: 14:00 - 18:00: Salle  
Bohr 40/S2-B01 Wednesday (13/11) morning: 9:00 -13:00: Salle Bohr 40/S2-B01

# Monday 11 November

16:20

## Session: Theory of $t\bar{t}$ + HF

### Session |

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16:20–16:40

### Five-flavour scheme predictions for $t\bar{t}$ + $b\bar{b}$ at next-to-leading order accuracy

#### Speakers

Rikkert Frederix, Tetiana Moskalets

16:40–17:00

### Discussion

17:00–17:20

### $t\bar{t}$ +HF modelling

#### Speaker

Judith Katzy

17:20–17:30

### Discussion

17:50

# Tuesday 12 November

09:00

## Session

**Session** | **Location:** CERN, 40/S2-B01 - Salle Bohr

09:00–09:20

### Hadronic Top Quark Polarimetry with ParticleNet and Analytical Insights on Hadronic Top Quark Polarimetry

**Speaker**

Alberto Navarro

09:20–09:30

### Discussion

09:30–09:50

### Measurements of inclusive and differential cross sections for top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV

**Speaker**

Beatriz Ribeiro Lopes

09:50–10:00

### Discussion

10:00–10:20

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

**Speaker**

Simone Tentori

10:20–10:30

### Discussion

10:30

11:00

## Session

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11:00–11:15

### Constraining HEFT(SMEFT) coefficients involving t-quarks from bound-states and the Hartree-Fock method

**Speaker**

Felipe J. Llanes-Estrada

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11:15–11:25

### Discussion

11:25–11:45

### Search for pair production of heavy particles decaying to a top quark and a gluon in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV at CMS

**Speaker**

Finn Jonathan Labe

12:30

**Location**  
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11:45-11:55 **Discussion**

11:55-12:15 **Search for same-sign top-quark production in ATLAS**

**Speaker**  
Aaron Van Der Graaf

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12:15-12:25 **Discussion**

14:00

**Session: tTbar production in heavy-ion collisions**

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14:00-14:20

**tTbar production in heavy-ion collisions with the ATLAS and CMS detectors**

**Speakers**  
Dr Georgios Krintiras, Patrycja Anna Potepa

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14:20-14:30 **Discussion**

14:30-14:50

**Probing the Time Structure of the Quark-Gluon Plasma with Top Quarks,**

**Speaker**  
Dr Guilherme Milhano

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14:50-15:00 **Discussion**

15:00-15:20 **NNLO PDFs driven by top-quark data**

**Speaker**  
Maria Vittoria Garzelli

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15:20-15:30 **Discussion**

15:30

16:00

**Session**

**Session** | **Location:** CERN, 40/S2-B01 - Salle Bohr

16:00-16:20

**Combined effective field theory interpretation of Higgs boson, electroweak vector boson, top quark, and multi-jet measurements**

**Speaker**  
Fabian Stager

**Location**

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16:20–16:30

**Discussion**

16:30–16:50

**A summary of the Oxford workshop on entanglement**

**Speaker**

r Demina

**Location**

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16:50–17:00

**Discussion**

17:00