

Session Program

30 July 2026 to 5 August 2026

43rd International Conference on High Energy Physics

Electroweak and Top Quark Physics

Natal Convention Center
Via Costeira Sen. Dinarte Medeiros Mariz, 6664-6704 - Ponta Negra, Natal - RN, 59090-002

Friday 31 July

14:30

Electroweak and Top Quark Physics

Session |

Location: Praiamar Natal Hotel & Convention, Room #12, R. Francisco Gurgel, 33 - Ponta Negra, Natal - RN, 59090-050

14:30–14:45

Recent results on inclusive and differential top quark production at CMS

Speaker

Samadhan Kamble

14:45–15:00

Recent results on threshold production and quantum properties of the top quark at CMS

Speaker

Laurids Jeppe

15:00–15:15

Rare top production at CMS

Speaker

Riccardo Salvatico

15:15–15:30

Cross-section measurements with top-quark events in ATLAS

Speaker

Sven Menke

15:30–15:45

Measurements of the top-quark mass in ATLAS

Speaker

Mark Owen

15:45–16:00

Associated production of top quarks in ATLAS

Speaker

Shayma Wahdan

16:00–16:15

Measurements of cross-sections close to the $t\bar{t}$ threshold in ATLAS

Speaker

Guennadi Borissov

16:15

16:45

Electroweak and Top Quark Physics

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16:45–17:00

Top-quark properties (excluding top-quark mass) measurements in ATLAS

Speaker

Eleanor Jones

17:00–17:15

Recent updates on modelling of $t\bar{t}$ events

Speaker

Timothee Thevenaux-Pelzer

17:15-17:30

Electroweak and associated top-quark production at CMS

Speaker

Alberto Belvedere

17:30-17:45

Multiboson Measurements at CMS

Speaker

Justin Marquez

17:45-18:00

Vector boson scattering results in CMS

Speaker

Shilpi Jain

18:00-18:15

Diboson precision measurements in ATLAS

Speaker

Greg Myers

18:15-18:30

Measurement of rare electroweak processes (VBS and triboson) in ATLAS

Speaker

Muhammad Alhroob

18:30

Saturday 1 August

08:30

Electroweak and Top Quark Physics

Session |

Location: Praiamar Natal Hotel & Convention, Room #10, R. Francisco Gurgel, 33 - Ponta Negra, Natal - RN,

Coordinators:

Jorge de Blas, Miguel Ramos Pernas, Joany Manjarres, Dr Francesco Giuli, Emilie Passemar, Matteo Defranchis

08:30–08:45

Probe of diboson polarization states in ATLAS

Speaker

Olivier Arnaez

08:45–09:00

W boson production and decay properties in the forward region with LHCb

Speaker

Menglin Xu

09:00–09:15

Rare vector boson decays at CMS

Speaker

Dennis Roy

09:15–09:30

A precision measurement of the W and Z boson production and a measurement of α_s at CMS

Speaker

Vladislav Shalaev

09:30–09:45

Measurement of Spin and Quantum Correlations in $Z \rightarrow \tau^+ \tau^-$ Decays at LEP with DELPHI

Speaker

Cen Mo

09:45–10:00

Precision multiphoton MC KKM_{ee} for lepton and quark pair production at lepton colliders: Update

Speaker

Bennie Ward

10:15

10:45

Electroweak and Top Quark Physics

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Coordinators:

Emilie Passemar, Dr Francesco Giuli, Matteo Defranchis, Joany Manjarres, Jorge de Blas, Miguel Ramos Pernas

10:45–11:00

EFT results with top quarks at CMS

Speaker

Andrea Piccinelli

11:00–11:15

EFT interpretations with top-quark events in ATLAS

Speaker

Sylvia Louise Mason

11:15–11:30

Electroweak Precision Observables, Top and Higgs physics in the SMEFT**Speaker**

Victor Miralles

11:30–11:45

Six-Top Final States from Vector-Like Tops: New LHC Reinterpretations**Speaker**

Prof. Alexander Belyaev

11:45–12:00

NRQCD uncertainties in top-quark pair production near threshold**Speaker**

Oleksandr Zenaiev

12:00–12:15

PDF and BSM interplay in the Top and Drell-Yan sectors**Speaker**

Ella Cole

12:15–12:30

YFS MC Approach to Precision High Energy Collider Physics with Collinear Enhancement: Current Status**Speaker**

Bennie Ward

12:30

14:30

Electroweak and Top Quark Physics**Session****Location:** Praiamar Natal Hotel & Convention, Room #10, R. Francisco Gurgel, 33 - Ponta Negra, Natal - RN, 59090-000

Dr Francesco Giuliani, Joany Manjarres, Miguel Ramos Pernas, Jorge de Blas, Emilie Passemar, Matteo Defranchis

14:30–14:45

Electroweak Precision Physics at the FCC-ee**Speaker**

Matteo Defranchis

14:45–15:00

Heavy and strange forward backward asymmetries at FCC-ee**Speaker**

Laura Pintucci

15:00–15:15

Top and Electroweak physics at the Linear Collider Facility at CERN**Speaker**

Ivanka Bozovic-Jelisavcic

15:15–15:30

The WHIZARD Monte Carlo Generator for Current and Future Colliders**Speaker**

Krzysztof Mekala

15:30–15:45

Probing first-generation quark couplings at the Z pole**Speaker**

Krzysztof Mekala

15:45-16:00

Parton density functions for future electron-positron colliders**Speaker**

Andrej Arbuzov

16:00-16:15

On the Theoretical Precision of the Luminosity at Future Lepton Colliders**Speaker**

Bennie Ward

16:15

16:45

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Speakers: Matteo Defranichis, Dr Francesco Giuli, Miguel Ramos Pernas, Emilie Passemar, Jorge de Blas, Joany Manjarres

16:45-17:00

Top quark physics at FCC-ee and FCC-hh**Speaker**

Krzysztof Mekala

17:00-17:15

Top and EW physics at the Large Hadron electron Collider LHeC**Speaker**

Nestor Armesto Perez

17:15-17:30

Two-photon interactions at the LHeC**Speaker**

Laurent Forthomme

17:30-17:45

Investigating the toponium production in exclusive processes at the LHC and FCC**Speaker**

Victor Gonçalves

17:45-18:00

Measuring hadronic vacuum polarization with the MUonE experiment at CERN**Speaker**

Roberto Tenchini

18:00-18:15

Perspectives for studies of the HET physics at the muon-hadron collider at CERN**Speaker**

Help4CERN

18:15