

Session Program

8-11 Jan 2019



11th FCC-ee workshop: Theory and Experiments

Theory

CERN, 503/1-001 - Council Chamber

Tuesday 8 January

14:00

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

14:00–14:30 **Determinatiion of the QED coupling constant at the Z scale**

Speakers

Fred Jegerlehner, Fred Jegerlehner, Fred Jegerlehner

14:30–15:00 **alpha_s extractions at FCC-ee**

Speaker

David d'Enterria

15:00–15:30 **Heavy quarkonia production at Fcc-ee**

Speaker

Zhinguo He

15:30–16:00 **QCD with event shapes and jet rates**

Speakers

Thomas Gehrmann, Thomas Gehrmann, Thomas Kurt Gehrmann

16:00–16:30 **coffee**

16:30–17:00 **SM Precsion Predictions for partial Higgs Decay Widths**

Speaker

Michael Spira

17:00–17:30 **Theory predictions for WW production near threshold**

Speaker

Christian Schwinn

17:30–18:00 **Next-to-leading power resummation**

Speaker

Robert Szafron

18:00–18:30 **Axion-like particles at the FCC-ee**

Speaker

Andrea Thamm

18:30–19:00 **discussion**

19:00

Wednesday 9 January

09:00

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

09:00–09:25 **Numerical calculations for elliptic Feynman integrals**

Speaker

Stefan Weinzierl

09:25–09:50 **Unsubtractions at NNLO**

Speaker

German Rodrigo

09:50–10:15 **NNLO corrections in 4 dimensions**

Speaker

Roberto Pittau

10:15–10:40

Recent progress on the calculation of two-loop five-point Master Integrals

Speaker

Konstantinos Papadopoulos

10:40–11:10 **coffee**

11:10–11:35 **1-loop Feynman integrals at arbitrary space-time d**

Speaker

Tord Riemann

11:35–12:00 **Analytics from Numerics: 5-Point QCD Amplitudes at Two Loops**

Speaker

Benjamin John Page

12:00–12:25 **Laporta algorithm for multi-loop vs multi-scale problems**

Speaker

Mr Johann Usovitsch

12:25–12:45

Numerical Multi-loop Calculations: Sector Decomposition & QMC Integration in pySecDec

Speakers

Stephen Jones, Stephen Jones

12:50

14:00

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

14:00–15:00 **ee-Learning: what leptons can teach us about high-energy physics**

Speaker

Christophe Grojean

15:00-15:30 **Coffee**

15:30-16:00 **Precise Higgs physics beyond SM**

Speaker

Sven Heinemeyer

16:00-16:25 **Neutrino physics**

Speakers

Richard Ruiz, Richard Ruiz, Richard Ruiz

16:25-16:50 **(Triple) Higgs-coupling imprints at lepton colliders**

Speaker

Dr Julien Baglio

16:50-17:15 **Dark Matter and Axion-like particles**

Speaker

Wei Xue

17:15-17:45 **Tea**

17:45-18:10 **CoDEx - understanding BSM physics as SMEFT**

Speaker

Supratim Das Bakshi

18:10-18:35 **Global EFT**

Speaker

Tiann Tevong You

18:35-19:00 **SM Effective field theory fits at the FCC**

Speakers

Dr Jorge de Blas, Jorge de Blas, Dr Jorge de Blas, Jorge de Blas

19:00-19:30 **discussion**

20:30

Thursday 10 January

09:00

Theory

Session | **Location:** CERN, 4/3-006 - TH Conference Room

09:00–09:25 **Mixed QCD-QED resummation effects at higher-orders**

Speaker

German Sborlini

09:25–09:50 **Charm, bottom and top masses**

Speakers

Matthias Steinhauser, Matthias Steinhauser

09:50–10:15 **CoLoRFuNNLO at work: determination of α_S**

Speaker

Adam Kardos

10:15–10:40 **Top pair production and mass determination**

Speaker

Andreas Maier

10:40–11:00 **coffee**

11:00–11:25 **The shower-cut dependence of the top quark mass**

Speaker

Daniel Samitz

11:25–11:50 **Determination of top couplings with NLO fit**

Speakers

Eleni Vryonidou, Eleni Vryonidou, Eleni Vryonidou, Eleni Vryonidou

11:50–12:15 **One-loop electroweak radiative corrections to polarized $e^+e^- \rightarrow ZH$**

Speaker

Yahor Dydyska

12:15–12:40 **Exotic Higgs decays**

Speaker

José Francisco Zurita

12:40