

Session Program

7-11 Feb 2022



5th FCC Physics Workshop

FCC Physics

Wednesday 9 February

13:00

FCC Physics: QCD

Session | Location: | Convener: Gregory Soyez

13:00–13:15 **Hadronization corrections in event shapes**

Speaker

Silvia Ferrario Ravasio

13:20–13:35 **Jet energy spectrum and substructure in e^+e^- collisions at 91.2 GeV**

Speaker

Yen-Jie Lee

13:40–13:55 **Event Generators & Parton Showers**

Speakers

Simon Platzer, Simon Plätzer

14:00–14:12 **A Robust Measure of Event Isotropy at Colliders**

Speaker

Cari Cesarotti

14:15–14:30 **Parton structure, forward physics and eA and FCC-eh**

Speaker

Krzysztof Piotrzkowski

14:35

15:05

FCC Physics: Precision Electroweak

Session | Location: | Convener: Michael Peskin

15:05–15:17 **KKMCee status and planning**

Speaker

Staszek Jadach

15:20–15:32 **Path to FCC-ee 0.01% Theoretical Luminosity Precision**

Speakers

Bennie Ward, Bennie Ward

15:35–15:50 **Three-loop elliptic integrals for the Standard Model ρ parameter**

Speaker

Samuel Abreu

15:55–16:10

Electroweak pseudo-observables and Z-boson form factors at two-loop accuracy

Speaker

Johann Usovitsch

16:15–16:30 **Partonic structure of electron**

Speakers

Stefano Frixione, Stefano Frixione

16:35-16:50

Tools for higher loops

Speaker

Janusz Gluza

16:55-17:15

Path to precision

Speaker

Ayres Freitas

17:15

Thursday 10 February

13:00

FCC Physics: Direct BSM searches

Session | Location: | Convener: Albert De Roeck

13:00–13:25 **Discovery stories**

Speaker

Tiann Tevong You

13:25–13:50

High-dimensional Anomaly Detection with Radiative Return in $e+e-$ Collisions

Speaker

Julia Lynne Gonski

13:50–14:15 **Long-Lived Particles**

Speaker

Juliette Alimena

14:15

14:45

FCC Physics: Direct BSM searches

Session | Location: | Convener: Jose Valle

14:45–15:05 **Light BSM scalars at $e+e-$ machines**

Speaker

Tania Natalie Robens

15:05–15:25 **Tera-Zooming in on light (composite) axion-like particles**

Speaker

Giacomo Cacciapaglia

15:25–15:45 **BSM & top Physics with FCC-eh**

Speaker

Oliver Fischer

15:45–16:05 **Systematics in HEP**

Speaker

Louis Lyons

16:35