

Session Program

7-11 Oct 2024

QCD@LHC 2024

Plenary session

University of Freiburg
Hermann-Herder-Str. 3 79104 Freiburg

Monday 7 October

09:00

Plenary session

Session | **Location:** Institute of physics, Großer Hörsaal Physik, Hermann-Herder-Str. 3 79104 Freiburg |
Convener: Karl Jakobs

09:00–09:10 **Welcome**

Speaker
Stefan Dittmaier

09:10–09:40 **Overview of higher-order calculations**

Speaker
Lorenzo Tancredi

09:40–10:10 **Advances in resummed calculations**

Speaker
Thomas Becher

10:10–10:40 **Strong coupling measurements at the LHC**

Speaker
Valentina Guglielmi

10:40

11:00

Plenary session

Session | **Location:** Institute of physics, Großer Hörsaal Physik, Hermann-Herder-Str. 3 79104 Freiburg |
Convener: Ansgar Denner

11:00–11:30 **QCD aspects in W and Z production, with focus on high pT**

Speaker
Florencia Luciana Castillo

11:30–12:00 **Event generators (recent developments)**

Speaker
Steffen Schumann

12:00–12:30 **Parton showers (recent developments)**

Speaker
Simon Platzer

12:30

Tuesday 8 October

09:00

Plenary session

Session | **Location:** Institute of physics, Großer Hörsaal Physik, Hermann-Herder-Str. 3 79104 Freiburg |
Convener: Klaus Rabbertz

09:00–09:30 **Precision Higgs calculations**

Speaker
Gudrun Heinrich

09:30–10:00 **Status of Higgs boson precision measurements**

Speaker
Johannes Erdmann

10:00–10:30 **Status of electroweak parameter measurements**

Speaker
Frederic Derue

10:30

11:00

Plenary session

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Convener: Gudrun Heinrich

11:00–11:30 **Electroweak multi-boson production and scattering**

Speaker
Ansgar Denner

11:30–12:00 **EFT fits and interpretations**

Speaker
Anke Biekötter

12:00–12:30 **Overview on BSM searches**

Speaker
Brendan Regnery

12:30

Wednesday 9 October

09:00

Plenary session

Session | **Location:** Institute of physics, Großer Hörsaal Physik, Hermann-Herder-Str. 3 79104 Freiburg |
Convener: Yasmine Sara Amhis

09:00–09:30

Precision calculations for heavy-quark production

Speaker

Rene Poncelet

09:30–10:00

Recent experimental results on top and heavy-flavour production

Speaker

Thorsten Kuhl

10:00–10:30

Flavour-sensitive jet algorithms

Speaker

Giovanni Stagnitto

10:30

11:00

Plenary session

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Convener: Steffen Schumann

11:00–11:30

Heavy quark production and the variable-flavor-number-scheme at NNLO

Speaker

Kay Schönwald

11:30–12:00

Anomalies in the flavour sector - current status -

Speaker

Konstantinos Petridis

12:00–12:30

QCD and flavour physics at future lepton colliders

Speaker

Yasmine Sara Amhis

12:30

Thursday 10 October

09:00

Plenary session

Session | **Location:** Institute of physics, Großer Hörsaal Physik, Hermann-Herder-Str. 3 79104 Freiburg |
Convener: Sven-Olaf Moch

09:00–09:30

Impact of QCD and PDF uncertainties on SM precision measurements

Speaker

Markus Seidel

09:30–10:00

Impact of QCD and PDF uncertainties on BSM searches

Speaker

Miha Muskinja

10:00–10:30

PDF constraints from new data and expectations from future experiments

Speaker

Dr Juan M. Cruz Martinez

10:30

11:00

Plenary session

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Convener: Stefan Gieseke

11:00–11:30

Recent advances in PDFs from lattice QCD

Speaker

Prof. Martha Constantinou

11:30–12:00

Highlights of heavy-ion collisions at the LHC

Speaker

Enrico Fragiaco

12:00

Friday 11 October

09:00

Plenary session

Session | **Location:** Institute of physics, Großer Hörsaal Physik, Hermann-Herder-Str. 3 79104 Freiburg |
Convener: Thomas Becher

09:00–09:30

Soft QCD in MC event generators, multi-parton interactions

Speaker

Jonathan Richard Gaunt

09:30–10:00

Soft QCD measurements, diffractive processes

Speaker

Dr Francesco Giuli

10:00–10:30

Status of QCD calculations for $g-2$ predictions

Speaker

Aida El-Khadra

10:30

11:00

Plenary session

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Convener: Stefan Dittmaier

11:00–12:00

Concluding talk

Speaker

Stefano Forte

12:00