

Session Program

30 March 2025 to 6 April 2025

**59th Rencontres de Moriond 2025: QCD &
High Energy Interactions**

QCD

Thursday 3 April

17:00

QCD

Session | **Location:** Hotel Planibel, La Thuile, Italy | **Convener:** Giulia Zanderighi

17:00-17:15

Determination of the Strong Coupling Constant from Inclusive Semi-leptonic B Meson Decays

Speaker

Yuzhi Che

17:20-17:35

Strong Coupling from Inclusive Semi-leptonic Decay of Charmed Mesons

Speaker

Jinfei Wu

17:40-17:55

A Precise Determination of α_s from the Heavy Jet Mass Distribution

Speaker

Miguel Benitez

18:00-18:15

Precise Predictions for Event Shapes in Diphoton Production at the LHC

Speaker

Matteo Marcoli

18:20-18:40

Coffee break

18:40-18:55

Precise Determination of the Strong Coupling Constant from Dijet Cross Sections up to the Multi-TeV Range

Speaker

Joao Pires

19:00-19:15

Splitting amplitudes at N³LO in QCD/Four-loop splitting functions in QCD - the gluon-gluon case

Speaker

Andrea Pelloni

19:20-19:35

Robust estimates of theoretical uncertainties at fixed-order in perturbation theory

Speaker

Rene Poncelet

19:40-19:55

A new standard for the logarithmic accuracy of parton showers

Speaker

Silvia Ferrario Ravasio

20:00

Friday 4 April

08:30

QCD: Morning

Session | **Location:** Hotel Planibel, La Thuile, Italy | **Convener:** Martin White

08:30–08:45

Standard Model soft and hard QCD at ATLAS and CMS

Speaker

Oldrich Kepka

08:50–09:05

Probing flavour effects in QCD showers with heavy-flavour jets with ALICE

Speaker

Emma Rose Yeats

09:10–09:25

Recent TMD measurements in pp collisions at RHIC-STAR

Speaker

Yixin Zhang

09:30–09:45

News from the strong interaction program of NA61/SHINE

Speaker

Antoni Marcinek

09:50–10:05

Hadronic cross section measurements with DAMPE: first results

Speaker

Andrii Tykhonov

10:10–10:30

Coffee break

10:30–10:45

Universal properties of elastic pp cross-section from the ISR to the LHC

Speaker

Michal Praszalowicz

10:50–11:05

Super-Leading Logarithms and PDF Factorization

Speaker

Thomas Becher

11:10–11:25

Do jet cross sections factorize?

Speaker

Matthias Neubert

11:30–11:45

FLAG review 2024

Speaker

Peter Petreczky

12:05

17:00

QCD: Afternoon

Session | **Location:** Hotel Planibel, La Thuile, Italy | **Convener:** Matthias Neubert

17:00–17:15

Resummation of Non-Global Logarithms

Speaker Nicolas Schalch
<div>17:20-17:35</div> Study (pre-)confinement properties and multi-quark exotic hadron structures in the heavy quark jet Speaker Shi-yuan Li
<div>17:40-17:55</div> Global fits sub-GeV dark matter models with GAMBIT Speaker Sri Sankari Alias Sowmiya Balan
<div>18:00-18:20</div> Coffee break
<div>18:20-18:35</div> Parton distribution functions from Lattice QCD Speaker Savvas ZAFEIROPOULOS
<div>18:40-18:55</div> Combination of aN3PDFs and implications for Higgs production cross-sections at the LHC Speaker Felix Hekhorn
<div>19:00-19:15</div> A holographic analysis of the pion Speaker Prof. Ruben Sandapen
<div>19:20-19:40</div> Discussion on Moriond organization Speakers Bolek Pietrzyk, Etienne Auge, Jacques Dumarchez
<div>19:40-19:55</div> International Centre For Interdisciplinary Science & Education, Quy Nhon, Vietnam Speaker Nazila Mahmoudi

19:55