

Session Program

26-30 Jul 2021



**The 38th International Symposium on Lattice
Field Theory**

Plenary

Monday 26 July

09:00

Plenary

Session | Convener: Francesca Cuteri

09:00–09:40 **Flavour physics overview**

Speaker

Ruth Van de Water

09:40–10:20 **An overview of the QCD phase diagram at finite T and μ**

Speaker

Jana N. Guenther

10:20–10:40 **Heavy quarks at finite temperature**

Speaker

Dr Johannes Heinrich Weber

10:40–11:00 **Aspects of finite temperature QCD approaching the chiral limit**

Speaker

Anirban Lahiri

11:00

Tuesday 27 July

09:00

Plenary

Session | Convener: Bipasha Chakraborty

09:00–09:20

Direct CP violation and the $\Delta I=1/2$ rule in $K \rightarrow \pi\pi$ decay from the Standard Model

Speakers

Christopher Kelly, Christopher Kelly

09:20–09:40

Semileptonic $b \rightarrow u$ decays and $|V_{ub}|$

Speaker

Jonna Koponen

09:40–10:10

Effective Field Theories and Lattice QCD for the X Y Z frontier

Speaker

Nora Brambilla

10:10–10:40

Lattice field theory and BSM phenomenology: The beginning of a beautiful friendship

Speaker

Giacomo Cacciapaglia

10:40–11:00

Recent work on tessellations of hyperbolic geometries

Speaker

Judah Unmuth-Yockey

11:00

Wednesday 28 July

09:00

Plenary

Session | Convener: Kari Rummukainen

09:00–09:30

Perspectives on the current status of and future prospects for ML in lattice QFT

Speaker

Sebastien Racaniere

09:30–09:50

QFT Dynamics from CFT Data with Lightcone Conformal Truncation

Speakers

Liam Fitzpatrick, Liam Fitzpatrick

09:50–10:20

Gender and racial discrimination in STEM: Intersecting oppressions with multifaceted solutions

Speaker

Asia Eaton

10:20–11:00

Wilson award: Maxwell Hansen

Speakers

Kari Rummukainen, Maxwell Hansen

11:00

Thursday 29 July

09:00

Plenary

Session | Convener: Chris Monahan

09:00–09:30

The US Electron Ion Collider and Lattice QCD: Physics Opportunities and Experimental Challenges

Speaker

Abhay Deshpande

09:30–10:10

Progress in x-dependent partonic distributions from lattice QCD

Speaker

Krzysztof Cichy

10:10–10:30

Recent progress on nucleon form factors

Speaker

Dalibor Djukanovic

10:30–11:00

The impact of LQCD on transverse momentum parton phenomenology

Speakers

Iain Stewart, Iain Stewart

11:00

Friday 30 July

01:00

Plenary

Session | Convener: Xu Feng

01:00–01:40 **Spectroscopy and Hadron Interactions**

Speaker

Ben Hoerz

01:40–02:00 **Recent developments in nuclear lattice effective field theory**

Speaker

Bingnan Lu

02:00–02:20

Software development and performance of Fugaku and ARM architectures

Speaker

Yoshifumi Nakamura

02:20–02:40

Lattice Meets Lattice - Application of Lattice Cubature to Models in Lattice Gauge Theory

Speaker

Frances Kuo

02:40–03:00

A physicist-friendly reformulation of the Atiyah-Patodi-Singer index (on a lattice)

Speaker

Hidenori Fukaya

03:00–03:20 **Recent progress in the tensor renormalisation group**

Speakers

Daisuke Kadoh, Daisuke Kadoh

03:20

09:00

Plenary

Session | Convener: Christoph Lehner

09:00–09:40 **Review of muon g-2**

Speaker

Aida El-Khadra

09:40–10:00

Muon g-2: BMW calculation of the hadronic vacuum polarization contribution

Speaker

Balint Toth

10:00–10:40 **Computing System Trends and Performance Portability**

Speaker

Balint Joo

10:40-11:00

SU(3) gauge theory on quantum hardware

Speaker

Natalie Klco

11:00