



## Mainz Institute for Theoretical Physics

#### **SCIENTIFIC PROGRAMS**

Power Expansions on the Lightcone: From Theory to Phenomenology

CANCELLED DUE TO COVID-19 February 16-26, 2021

Gravity and Emergent Gauge Fields in Condensed and Synthetic Matter

CONVERTED TO VIRTUAL WORKSHOP April 12-23, 2021

Flavour of BSM Physics in the LHC Era

CANCELLED DUE TO COVID-19 April 26-May 7, 2021

Towards the Next Fundamental Scale of Nature:

New Approaches in Particle Physics and Cosmology

CANCELLED DUE TO COVID-19 May 10-21, 2021

Mega Dark Matter: Theory and Detection

CANCELLED DUE TO COVID-19 May 25 - June 4, 2021

Neutrinos, Flavour and Beyond
POSTPONED TO EDEE June 7 - 18, 2021, Capri, Italy

Machine Learning for Particle Physics

CONVERTED TO VIRTUAL WORKSHOP) June 21-July 2, 2021

Positive Geometries in Scattering Amplitudes and Beyond

CONVERTED TO VIRTUAL WORKSHOP July 7-18, 2021

Probing new Physics with Gravitational Waves

CANCELLED DUE TO COVID-19

July 26 - August 13, 2021

**Dark Sector Theory Confronts Reality** 

CANCELLED DUE TO COVID-19 August 30 - Sept. 10, 2021

Mathematical Foundations of the Swampland Program

CANCELLED DUE TO COVID-19

Sept. 13 - 24, 2021

Quantum Field Theory at the Boundary

CONVERTED TO VIRTUAL WORKSHOP) Sept. 27 - 30, 2021

Light New Physics: From Table-Top Experiments to the LHC

November 29 - December 10, 2021

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#### **TOPICAL WORKSHOPS**

Quantum Methods for Lattice Gauge Theories

CANCELLED DUE TO COVID-19 February 2-4, 2021

Evaluation of the Leading Hadronic Contribution to the Muon g-2: Toward the MUonE Experiment

CANCELLED DUE TO COVID-19 March 30 - April 3, 2021

Machine Learning Techniques in Lattice QCD

CONVERTED TO VIRTUAL WORKSHOP April 6-10, 2021

Precision Tests with Neutral-Current
Coherent Interactions with Nuclei

CANCELLED DUE TO COVID-19
June 7 - 11, 2021

Elliptic Integrals in Fundamental Physics

CANCELLED DUE TO COVID-19 June 14-18, 2021

### MITP SUMMER SCHOOL

**The Amplitude Games** 

CONVERTED TO VIRTUAL SCHOOL July 12-30, 2021

Summer School on Particle Physics in São Paulo
POSTPONED TO 2022 September 13-24, 2021

#### VIRTUAL WORKSHOPS

Gravity and Emergent Gauge Fields in Condensed and Synthetic Matter

April 12-23, 2021

Machine Learning Techniques in Lattice QCD May 24-28, 2021

Machine Learning for Particle Physics
June 21 - July 2, 2021

Positive Geometries in Scattering Amplitudes and Beyond July 7 - 18, 2021

The Amplitude Games
July 12-30, 2021

Quantum Field Theory at the Boundary September 27 - 30, 2021



Mainz Institute for Theoretical Physics
PRISMA+ Cluster of Excellence
Johannes Gutenberg-Universität Mainz, Germany