

Session Program

24 July 2016 to 5 August 2016



MITP Summer School 2016: New Physics on Trial at LHC Run II

Student talks

Erbacher Hof
Akademie & Tagungszentrum des Bistums Mainz Grebenstr. 24-26, 55116 Mainz

Wednesday 27 July

20:00

Student talks: Dark matter

Session | Location: Erbacher Hof, Akademie & Tagungszentrum des Bistums Mainz Grebenstr. 24-26, 55116 Mainz | Conveners: Genesis Perez, Annika Reinert

20:00–20:10 The last gasp of DM EFTs at colliders

Speaker

Sebastian Bruggisser

20:10–20:20 MadDM

Speaker

Gopolang Mohlabeng

20:20–20:30 DM @ NLO

Speaker

Saskia Schmiemann

20:30–20:40 Cosmic rays

Speaker

Annika Reinert

20:40–20:50 Simplified models of flavoured DM

Speaker

Simon Kast

21:00

Thursday 28 July

20:00

Student talks: SUSY and Exotics

Session | Location: Erbacher Hof, Akademie & Tagungszentrum des Bistums Mainz Grebenstr. 24-26, 55116 Mainz | Conveners: Genesis Perez, Annika Reinert

20:00–20:10 Interpretation of SUSY searches with simplified models

Speaker

Ursula Laa

20:10–20:20 Left-Right models @ TeV scale

Speaker

Toby Opferkuch

20:20–20:30 Colorless top quark particles

Speaker

Gabriela Lichtenstein

20:30–20:40

The String Soundscape: what gravitational wave detectors can teach us about BSM physics

Speaker

Isabel Garcia Garcia

20:40–20:50 Geometric Aspects in SUSY

Speaker

Mario Maffei

21:00

Monday 1 August

20:00

Student talks: QCD and Exotics

Session | Location: Erbacher Hof, Akademie & Tagungszentrum des Bistums Mainz Grebenstr. 24-26, 55116 Mainz | Conveners: Annika Reinert, Genesis Perez

20:00–20:10 Hamiltonian truncation and the large E_T expansion

Speaker

Marc Riembau

20:10–20:20 Flavor anomalies: SM strikes back?

Speaker

Marco Fedele

20:20–20:30 Exclusive hadronic decays in QCD factorization

Speaker

Matthias König

20:30–20:40 Exclusive radiative decays of Z-bosons in QCD factorization

Speaker

Stefan Alte

20:40–20:50 NLO QCD amplitudes in the generalized unitarity framework

Speaker

Vasily Sotnikov

21:00

Tuesday 2 August

20:00

Student talks: Higgs and Electroweak

Session | Location: Erbacher Hof, Akademie & Tagungszentrum des Bistums Mainz Grebenstr. 24-26, 55116 Mainz | Conveners: Genesis Perez, Annika Reinert

20:00–20:10 **Constraining extra fermions with Higgs rates**

Speaker

Andrei Angelescu

20:10–20:20 **Heavy Higgs search at LHC**

Speaker

Ying-Ying Li

20:20–20:30 **Higgs dynamics in the early universe**

Speaker

Marco Zatta

20:30–20:40 **EFTs for vector boson scattering**

Speaker

Genesis Perez

21:00