

Session Program

26-28 Jul 2023

Theory and Experiment in High Energy Physics

Short talks

Bratislava, Slovakia

Fakulta matematiky, fyziky a informatiky Univerzity Komenského Mlynská dolina F1, 842 48 Bratislava

Thursday 27 July

08:20

Short talks

Session | **Location:** Lecture room F1, FMFI UK, Mlynská dolina, 84248 Bratislava

08:20–08:50

Strangeness Enhancement in Small Collision Systems at ALICE: Role of Hard and Soft Processes

Speaker

Ishaan Ahuja

08:50–09:20

Production of light flavour hadrons in the ALICE experiment at the CERN LHC

Speaker

Marek Bombara

09:20–09:50

Light flavor hadron production investigated in Xe-Xe collisions with ALICE experiment at the LHC

Speaker

Natalia Dzalaiova

09:50

10:10

Short talks

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10:10–10:40

Self-Similar Solutions in Newtonian Cosmology

Speaker

Balazs Endre Szigeti

10:40–11:10

Constraints on the Size of the Extra Compactified Dimensions from Compact Star Observations

Speaker

Anna Horvath

11:10–11:40

Searching for dark matter through observations of compact stars and detections of cosmic rays

Speaker

Dr David Edwin Alvarez Castillo

11:40–12:10

AI learns the stellar spectrum

Speaker

Balázs Pál

12:10

13:40

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13:40–14:10

Precise prediction for the W-boson mass in U(1) extensions of the standard model**Speaker**

Zoltán Péli

14:10–14:40

Unitarity in multi-Higgs production**Speaker**

Gábor Cynolter

14:40–15:10

Thermal regularization of t-channel singularities of scattering processes**Speaker**

Michał Iglicki

15:10–15:40

A less commutative version of quarkonium masses**Speaker**

Benedek Bukor

15:40

16:15

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16:15–16:45

Looking for the details of the pp collisions**Speaker**

Guy Paic

16:45–17:15

Quantifying the Underlying Event in pp Collisions at LHC Energies using Non-extensive Statistics**Speaker**

Dr Gergely Gabor Barnafoldi

17:15–17:45

Axion-Like-Particle Search Using Machine Learning for the Signal Sensitivity Optimization with Run-2 LHC Data Recorded by the ATLAS Experiment**Speaker**

Ondrej Matousek

17:45

Friday 28 July

08:20

Short talks

Session | **Location:** Lecture room F1, FMFI UK, Mlynská dolina, 84248 Bratislava

08:20–08:50 **Speed of sound in a dynamical chiral quark model**

Speaker
Udita Shukla

08:50–09:20 **Confined covariant quark model.**

Speaker
Andrej Liptaj

09:20