

Session Program

25-29 Jul 2022



27th International Symposium on Particles, Strings and Cosmology

Parallel Session B

Max Planck Institute for Nuclear Physics, Heidelberg, Germany
Saupfercheckweg 1 69117 Heidelberg Germany

Monday 25 July

14:00

Parallel Session B: Flavor Physics

Session | **Location:** Central Seminar Room | **Convener:** José Francisco Zurita

14:00-14:18

Flavor hierarchies, flavor anomalies, and the Higgs mass from a warped extra dimension

Speaker

Ben Stefanek

14:18-14:36

Neutrino mass and flavor anomalies

Speaker

shaikh saad

14:36-14:54

Flavour anomalies, Light Dark Matter and rare $B \rightarrow K^* \ell \ell$ decays with missing energy in $L_{\mu}-L_{\tau}$ model

Speaker

Dr. Rukmani Mohanta

14:54-15:12

Predictions for flavorful Z' searches from asymptotic safety

Speaker

Abhishek Chikkaballi

15:12-15:30

Explaining recent anomalies in vector-like fermion extensions

Speaker

Dr Junichiro KAWAMURA

15:30

16:00

Parallel Session B: $g-2$ /EDM

Session | **Location:** Central Seminar Room | **Convener:** Farinaldo Queiroz

16:00-16:18

Magnetic moment of the muon: the BMW lattice result

Speaker

Zoltan Fodor for the BMW-Collaboration

16:18-16:36

Probing the $L_{\mu}-L_{\tau}$ Gauge Boson at the MUonE Experiment

Speaker

Natsumi Nagata

16:36-16:54

Muon $(g-2)$ and Thermal WIMP DM in $U(1)_{L_{\mu}-L_{\tau}}$ Models

Speaker

Mr Jongkuk Kim

16:54-17:12

Improved indirect limits on muon EDM

Speaker

Yohei Ema

17:50

Tuesday 26 July

11:00

Parallel Session B: BH/PBH

Session | **Location:** Central Seminar Room | **Convener:** Florian Kühnel

11:00-11:18

Aspects of black holes and compact objects in Lorentz violating gravity

Speaker

Mario Herrero Valea

11:18-11:36

Evaporating primordial black holes, the string axiverse, and hot dark radiation

Speaker

Marco Calza

11:36-11:54

Formation of PBHs during the QCD phase transition

Speaker

Albert Escrivà

12:30

14:00

Parallel Session B: Axion/ALP

Session | **Location:** Central Seminar Room | **Convener:** Keisuke Harigaya

14:00-14:18

Flavored Axion Dark Matter in the Laboratory, the Stars and the Universe

Speaker

Robert Ziegler

14:18-14:36

S.M.A.S.H.E.D- Standard Model Axion Seesaw Higgs (Inflation) Extended (for) Dirac (Neutrinos)

Speaker

Maximilian Berbig

14:36-14:54

Phenomenological impact of anomaly-free axion in three Higgs doublet model

Speaker

Kodai Sakurai

14:54-15:12

A heavy Axion from a Grand Color

Speaker

Alessandro Valenti

15:12-15:30

Axion quality from the symmetric of SU(N)

Speaker

giacomo landini

15:30

16:00

Parallel Session B: Gravitational Waves**Session** | **Location:** Central Seminar Room | **Convener:** Michela Mapelli**16:00–16:18** **Phase transitions in the early Universe with quantum corrections****Speaker**

Mariana Carrillo Gonzalez

16:18–16:36 **Gravitational wave induced baryon acoustic oscillations****Speaker**

Christian Döring

16:36–16:54 **Spectroscopy of Particle Couplings with Gravitational Waves****Speaker**

Nicolás Loayza Romero

16:54–17:12 **Gravitational waves from spectator Gauge-flation****Speaker**

Oksana Iarygina

17:12–17:30 **Detectable Gravitational Wave Signals from Inflationary Preheating****Speaker**

Evangelos Sfakianakis

17:30

Wednesday 27 July

11:00

Parallel Session B: Flavor Physics

Session | **Location:** Central Seminar Room | **Convener:** Ferruccio Feruglio

11:00-11:18

A tale of invisibility: constraining new physics in $b \rightarrow svv$

Speaker

Michael Schmidt

11:18-11:36

Status of the $R_{D^{(*)}}$ anomaly and complementary LHC probes

Speaker

Dr Monika Blanke

11:36-11:54

Leptoquark manoeuvres in the dark: a simultaneous solution of the dark matter problem and the $RD^{(*)}$ anomalies

Speaker

Dr José Francisco Zurita

11:54-12:12

Puzzles in the $B^0_s \rightarrow D_s^{\mp} K^{\pm}$ system: Do they indicate New Physics?

Speaker

Eleftheria Malami

12:12-12:30

Recent results on B and D decay from Belle II

Speaker

Doris Yangsoo Kim

12:50

Thursday 28 July

11:00

Parallel Session B: Axion/ALP

Session | **Location:** Central Seminar Room | **Convener:** Pedro Schwaller

11:00-11:18

Cosmological and astrophysical constraints on decaying axion-like particles

Speaker

Felix Kahlhoefer

11:18-11:36

ALP Dark Matter from Kinetic Fragmentation: Opening up the parameter window and Observational Consequences

Speaker

Cem Eroencil

11:36-11:54

The importance of quantum loops for astrophysical ALPs

Speaker

Eike Müller

11:54-12:12

Recent Progress in Radio Searches for Dark Matter

Speaker

Jamie McDonald

12:12-12:30

Searching for axion dark matter with magnons

Speaker

Asuka Ito

12:30