

Session Program

Nov 7 - 11, 2022

DISCRETE 2022

Astroparticle Physics and cosmology

Kongresshaus Baden-Baden
Augustaplatz 10, Baden-Baden, Germany Q65R+43 Baden-Baden

Tue, November 8

2:00 PM

Astroparticle Physics and cosmology

Session | Location: Sitzungsraum 10 | Convener: Chair: Felix Kahlhöfer

14:00 – 14:15
Axion and FIMP Dark Matter in a $U(1)$ extension of the Standard Model
Speaker
Sarif Khan

14:15 – 14:30 **Cosmological constraints on decaying axion-like particles**
Speaker
Sebastian Hoof

14:30 – 14:45 **Exploring dark matter models with global fits**
Speaker
Tomas Gonzalo

14:45 – 15:00
Two-component vector WIMP - fermion FIMP dark matter model with an extended seesaw mechanism
Speaker
Francesco Costa

15:00 – 15:15 **Global Fits of vector-mediated simplified models for dark matter**
Speaker
Christopher Chang

15:15 – 15:30
Atomic responses for Dark matter scattering off electrons with Ge & Xe Detectors
Speaker
Dr Mukesh Kumar Pandey

3:30 PM

4:00 PM

Astroparticle Physics and cosmology

Session | Location: Sitzungsraum 10 | Convener: Chair: Thomas Schwetz-Mangold

16:00 – 16:15 **Axion-like particles as mediators for dark matter: beyond freeze-out**
Speaker
Aoife Bharucha

16:15 – 16:30 **Electroweak Phase Transition in a Dark Sector with CP Violation**
Speaker
Lisa Biermann

16:30 – 16:45 **Modified Dirac equation in schwarzschild metric**
Speaker
Ms Tara Hassanzadeh

16:45 - 17:00

The cyclic symmetries in the representations of unitary discrete subgroups

Speaker

Darius Jurciukonis

17:00 - 17:15

CPT and unitarity constraints for higher-order CP asymmetries at finite temperature

Speaker

Peter Maták

5:30 PM