

Session Program

Sep 3 - 7, 2018



Invisibles18 Workshop

Lunch with Poster Session

Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI)
Engesserstraße 5, 76131 Karlsruhe

Tue, September 4

12:30 PM

Lunch with Poster Session

Session | **Location:** Karlsruhe Institute of Technology (KIT), Mathematicum

12:30 – 14:30 **Lunch with Poster Session**

Subcontributions

Non-minimally coupled scalar dark matter from inflationary fluctuations (Gonzalo Alonso Álvarez)

Speaker

Gonzalo Alonso Álvarez

Testable ALP in the Minimal Linear Sigma Model (Javier Alonso González)

Speaker

Javier Alonso González

Dark matter search with the FUNK experiment (Arnaud Andrianavalomahefa)

Speaker

Arnaud Andrianavalomahefa

The Minimal Flavour Violating Axion (Fernando Arias Aragón)

Speaker

Fernando Arias Aragón

Impact of Beyond the Standard Model Physics in the Detection of the Cosmic Neutrino Background (Martín Arteaga Tupia)

Speaker

Martín Arteaga Tupia

Charged Higgs Contribution into $B \rightarrow D^* \tau \tau$ -Antineutrino Semileptonic Decays in Left-Right Models (Mustafa Ashry)

Speaker

Mustafa Ashry

Dark Matter searches using flavor physics measurements in the framework of Effective Field Theory (Cristian Caniu Barros)

Speaker

Cristian Caniu Barros

ARS mechanism and beyond (Andrea Caputo)

Speaker

Andrea Caputo

Surrogate Models for Direct Dark Matter Detection (Andrew Cheek)

Speaker

Andrew Cheek

Thermalization of inelastic dark matter in the Sun (Stefan Clementz)**Speaker**

Stefan Clementz

An EFT approach to lepton anomalies (Rupert Coy)**Speaker**

Rupert Coy

Freezing dark matter through heavy spin-1 and spin-2 portals (Maira Dutra)**Speaker**

Maira Dutra

Dark Matter Model or Mass: Benchmark-Free Forecasting for Future Detectors (Thomas Edwards)**Speaker**

Thomas Edwards

Constraints on neutrino matter potential and robustness of oscillation data (Ivan Esteban)**Speaker**

Ivan Esteban

Singlet-Triplet Higgs portal Dark Matter (Anastasia Filimonova)**Speaker**

Anastasia Filimonova

Vector Boson Scattering at the LHC: a promising route to new physics (Claudia Garcia-Garcia)**Speaker**

Claudia Garcia-Garcia

IceCube bounds on sterile neutrinos above 10 eV (Julia Gehrlein)**Speaker**

Julia Gehrlein

Probing the sterile neutrino portal to Dark Matter with γ rays (Miguel G. Folgado)**Speaker**

Miguel G. Folgado

Gravitational contributions to the beta function (Sergio Gonzalez-Martin)**Speaker**

Sergio Gonzalez-martin

Status of the eV Sterile Neutrino Oscillations (Alvaro Hernandez-Cabezudo)**Speaker**

Alvaro Hernandez-Cabezudo

The foreground effect on the J-factor estimation of dwarf spheroidal galaxies (Shunichi Horigome)**Speaker**

Shunichi Horigome

Singlet-Triplet Fermionic Dark Matter and LHC Phenomenology (Sarif Khan)**Speaker**

Sarif Khan

SO(10) Inspired Z' Models at the LHC (Simon King)**Speaker**

Simon King

Baryogenesis from R-parity breaking: the role of flavor (Fiona Kirk)**Speaker**

Fiona Kirk

The dark-matter axion mass (Vincent Klaer)**Speaker**

Vincent Klaer

Exchange-Correlation Effects in Axion Structure Formation (Erik Lentz)**Speaker**

Erik Lentz

General bounds on hidden CFTs (Kevin Max)**Speaker**

Kevin Max

Three-Flavoured Non-Resonant Leptogenesis at Intermediate Scales (Kristian Moffat)**Speaker**

Kristian Moffat

Determining the Masses of Right-Handed Neutrinos in the Littlest Seesaw (Susana Molina Sedgwick)**Speaker**

Susana Molina Sedgwick

Unparticle Decay of Neutrinos and its Possible Signatures at a Km² Detector for (3+1) Flavour Framework (Madhurima Pandey)**Speaker**

MADHURIMA PANDEY

Axion minicluster power spectrum and mass function (Andreas Pargner)**Speaker**

Andreas Pargner

SO(10)xS4 Grand Unified Theory of Flavour and Leptogenesis (Elena Perdomo Mendez)**Speaker**

Elena Perdomo Mendez

Flavourful Z' portal for vector-like neutrino Dark Matter and RK(*) (Mathias Pierre)**Speaker**

Mathias Pierre

KATRIN Background Characterization (Anna Pollithy)**Speaker**

Anna Pollithy

A study of invisible neutrino decay at DUNE and its effects on θ_{23} measurement (Dipyaman Pramanik)**Speaker**

Dipyaman Pramanik

Colour Unified Heavy Axion (Pablo Quílez Lasanta)**Speaker**

Pablo Quílez Lasanta

Status of the neutrinoless double-beta decay experiment GERDA (Chloe Ransom)**Speaker**

Chloe Ransom

Gauge legacy LHC run I (Nuno Filipe Rosa Agostinho)**Speaker**

Nuno Filipe Rosa Agostinho

Predictive leptogenesis from Minimal Flavour Violation (Salvador Rosauero)**Speaker**

Salvador Rosauero

Probing Relic Neutrino Decays with 21 cm Cosmology (Rome Samanta)**Speaker**

Rome Samanta

Quasi-local energy and compactification (Raquel Santos)**Speaker**

Raquel Santos

Simulation of axion electrodynamics and its cosmological applications (Toyokazu Sekiguchi)**Speaker**

Toyokazu Sekiguchi

Cosmological constraints with self-interacting sterile neutrinos (Ningqiang Song)**Speaker**

Ningqiang Song

Cosmological effects of DM-Photon scattering (Julia Stadler)**Speaker**

Julia Stadler

Optical selection for Pandora-based electron neutrino searches in MicroBooNE (Wouter Van De Pontseele)**Speaker**

Wouter Van De Pontseele

Detectable neutrino features of rotating supernova progenitors (Laurie Walk)**Speaker**

Laurie Walk

Heavy neutral fermions at the high-luminosity LHC (Zeren Simon Wang)**Speaker**

Zeren Simon Wang

Magic trick of the month: hiding blazars with decaying ALPs (Edoardo Vitagliano)**Speaker**

Edoardo Vitagliano

2:30 PM