

Session Program

17-21 Oct 2022

FIPs 2022 Workshop

New Ideas session

CERN, 500/1-001 - Main Auditorium

Wednesday 19 October

09:00

New Ideas session

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Conveners:** Torben Ferber, Felix Kahlhoefer

09:00–09:15

The Grenoble/Gravitational wave & Axion Haloscope (GrAHal): Development Plan and First Results

Speaker

Thierry Grenet

09:15–09:30

Radio signals of dark photons from compact stars in the galactic center

Speaker

Ningqiang Song

09:30–09:45

Novel Astronomical Observables of Axions - with baselines from kpc, Mpc, to Gpc

Speaker

Dr Chen Sun

09:45–10:00

A self-consistent wave description of axion miniclusters and their survival in the galaxy

Speaker

Virgile Dandoy

10:00–10:30

Coffee break

10:30–10:45

Lyman-alpha constraints on freeze-in and superWIMPs

Speaker

Quentin Decant

10:45–11:00

Consistent Kinetic Mixing

Speaker

Patrick Foldenauer

11:00–11:15

A new Scattering and Neutrino Detector at the LHC (SND@LHC)

Speaker

Oliver Lantwin

11:15–11:30

Inelastic Dirac Dark Matter

Speaker

Sam Junius

11:30–11:45

Large Energy Singles as a Probe of Dark Matter

Speaker

Prof. Basudeb Dasgupta

12:00

11:45-12:00

Jupiter missions as in situ probes of long-lived dark mediators

Speaker

Lingfeng Li

Thursday 20 October

09:00

New Ideas session

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Conveners:** Jacobo Lopez Pavon, Marco Drewes

09:00–09:13

Tests of Low-Scale Leptogenesis in Charged Lepton Flavour Violation Experiments

Speaker

Serguey Todorov Petkov

09:13–09:26

Constraints on heavy neutral leptons from the BEBC WA66 beam dump experiment

Speaker

Giacomo Marocco

09:26–09:39

Simulating lepton number violation induced by heavy neutrino-antineutrino oscillations at colliders

Speaker

Jan Hajer

09:39–09:52

Bounds on right handed neutrinos from observable leptogenesis

Speaker

Stefan Sandner

09:52–10:05

How to simplify the reinterpretation of HNL searches

Speaker

Jean-Loup Tastet

10:05–10:18

New limits on heavy neutral leptons with dark forces from neutrino data

Speaker

Matheus Hostert

10:18–10:31

Exotic $e+e^-$ production at MicroBooNE

Speaker

Asli Abdullahi

10:31–11:00

Coffee Break

11:00–11:15

New bounds on axion-like particles from neutrino experiments

Speaker

Salvador Urrea Gonzalez

11:15–11:30

Resonant dark sector searches at positron beam dumps

Speaker

Luc DARME

11:30-11:45

Techniques for model-independent interpretations of hidden sector searches

Speaker

Philipp Mauritz Klose

11:45-12:00

A Novel Approach to Detect Lepton Flavor Violating Scalar

Speaker

Kunfeng Lyu

12:00