

Session Program

31 August 2020 to 4 September 2020

FIPs 2020 - Feebly Interacting Particles 2020

Feebly interacting fermion particles

Tuesday 1 September

14:30

Feebly interacting fermion particles

Session | **Location:** Virtual Only | **Conveners:** Prof. Pilar Hernandez, Silvia Pascoli

14:30-15:00

Theoretical introduction to seesaw models and their connection to leptogenesis

Speaker

Marco Drewes

15:00-15:25

HNLs and their relation to astroparticle and cosmology (3.5 keV line, BBN, measurement of the absolute neutrino masses (KATRIN, Euclid, etc.)

Speaker

Prof. Oleg Ruchayskiy

15:25-15:50

HNLs and their relation (or non-relation) to active neutrino physics (PMNS, δ CP, $0 \nu \beta\beta$ decay, $m(\text{lightest neutrino}), \dots$)

Speaker

Jacobo Lopez Pavon

15:50-16:10

coffee break

16:10-16:35

Search for HNLs at extracted beams (neutrino experiments (T2K), NA62-kaon and dump mode, prospects for DUNE)

Speaker

Alexander Izmaylov

16:35-17:00

Search for HNLs at LHCb, ATLAS, CMS: status and prospects

Speaker

Lesya Shchutka

17:00-17:25

Prospects Search for HNLs with SHiP, MATHUSLA, FASER, and CODEX-b

Speaker

Nicola Serra

17:25-17:50

Prospects to search for HNLs at future ee/ep/pp colliders

Speaker

Oliver Fischer

17:50