

Session Program

22-23 Feb 2024



FAKT Workshop 2024: Particle Physics Retreat

Talks

Thursday 22 February

13:30

Talks: Afternoon session

Session

13:30-13:35

Welcome

Speaker

Massimiliano Procura

13:35-13:55

HEP Instrumentation: From ECFA Detector roadmap to DRD Collaborations

Speaker

Thomas Bergauer

13:55-14:10

Exploring long-lived particles decaying into displaced dimuons at $\sqrt{s} = 13.6$ TeV : Innovative Triggers for Enhanced Sensitivity at the CMS Experiment

Speaker

Mangesh Sonawane

14:10-14:25

Global LHC constraints on electroweakinos with SModelS v2.3

Speaker

Ms Sahana Narasimha

14:25-14:45

From colour evolution to hadronization and electroweak final states

Speaker

Simon Plätzer

14:45-15:05

Reshaping BSM model building & news from Graz

Speaker

Axel Torsten Maas

15:05-15:25

Defining the Monte Carlo top quark mass parameter

Speaker

Andre Hoang

15:25-15:40

Beyond the Narrow-Width Limit for Off-Shell and Boosted Differential Top Quark Decays

Speaker

Ines Ruffa

15:40-15:55

Factorization of Inclusive Semileptonic Off-Shell and Boosted Top Quark Decays in the Endpoint Region

Speaker

Christoph Regner

16:00

16:30

Talks: Afternoon session

Session

16:30–16:50 **Deep Generative Models in Particle Physics**

Speaker

Dr Claudius Krause

16:50–17:10 **Symplectic Singularities in Physics: Their Origins and Significance**

Speaker

Marcus Sperling

17:10–17:25 **Holographic Odderon at TOTEM?**

Speaker

Florian Hechenberger

17:25–17:45 **Identified particle analysis with ALICE at the LHC**

Speaker

David Dobrigkeit Chinellato

17:45–18:00

Addressing the Initial Stages in heavy-ion collisions using jet quenching

Speaker

Florian Lindenbauer

18:00–18:20 **Neutron puzzles: New perspectives**

Speaker

Benjamin Koch

18:20–18:35

Ultracold Neutrons beyond Newton: Remarks on next-to-leading order effects

Speaker

alessandro santoni

18:35–18:55 **Free neutron decay experiment PERC**

Speaker

Alberto José Saavedra García

18:55–19:05 **News from CERN**

Speaker

Jochen Schieck

19:05

Friday 23 February

08:45

Talks: Morning session

Session

08:45–09:05 **COSINUS and CRESST status update**

Speaker

Mariano Cababie

09:05–09:25

Coherent elastic neutrino-nucleus scattering and the NUCLEUS experiment

Speaker

Dr Vasile Mihai Ghete

09:25–09:45

Calibration of ~ 100 eV Nuclear Recoil with the CRAB Method

Speaker

Romain Martin

09:45–10:00

Scattering of Dark Pions in an $Sp(4)$ gauge theory

Speaker

Yannick Dengler

10:00–10:20

SIMPLE thoughts

Speaker

Josef Pradler

10:20–10:40

CPT and Lorentz invariance tests by hydrogen and deuterium hyperfine spectroscopy and implications for ASACUSA's antihydrogen programme

Speaker

Martin Simon

10:45

11:15

Talks: Morning session

Session

11:15–11:30

R-matrix calculations for Nuclear Data Evaluation with GECCOS

Speaker

Thomas Srdinko

11:30–11:45

Towards TMDs with contour deformations

Speaker

Eduardo Ferreira

11:45–12:05

NuPECC status and long range plan

Speaker

Eberhard Widmann

12:05–13:00

General discussion

13:00

Speakers

Florian Reindl, Massimiliano Procura