

2024 UniGe Physics day

Friday 12 January 2024

Presentations: Morning 1 - H8 (09:10-10:30)

time	[id] title	presenter
09:10	[37] Searching for new physics in pileup	Prof. SCHRAMM, Steven
09:30	[1] Collective advantages in finite-time thermodynamics	ROLANDI, Alberto
09:40	[12] Laser-guided Lightnings: Atmospheric discharges controlled by high-repetition rate laser filaments	MORENO, mr
09:50	[9] Our motion, gravitational waves and the isotropy of the Universe	PIJNENBURG, Martin
10:00	[26] Measurement of the Isotopic Composition of Light Nuclei in Cosmic Rays with AMS	LI, Manbing
10:10	[31] The NUSES space mission	DAVARPANA, Shideh
10:20	[15] Towards the development of superconducting joints between REBCO coated conductors: a thermomechanical study	LUCAS ESPARSEIL, Celia

Presentations: Morning 2 - H8 (11:00-12:30)

time	[id] title	presenter
11:00	[38] Motivations for exploring quantum thermal machines	Prof. HAACK, Géraldine
11:20	[8] Tuning quantum phases through space charge doping	ØRSTED, Andreas
11:30	[5] Testing gravity through the distortion of time	CASTELLO, Sveva
11:40	[23] Commissioning of the TOF detector for the T2K ND280 Upgrade	VILLA, Emanuele
11:50	[22] Gas Detection via Quantum Fourier Transform Infrared Spectroscopy in Long-Path Absorption	NEVES, Simon
12:00	[35] First Physics Results from the FASER Experiment with LHC Run 3 Data	Ms TARANNUM, Noshin
12:10	[28] Calibration of Imaging Atmospheric Cherenkov Telescopes using Muons	VOITSEKHOVSKYI, Vadym
12:20	[19] Can we discover Beautiful resonances with Trigger Level Analysis?	FRANCHELLUCCI, Stefano

Presentations: Afternoon 1 - H8 (14:00-15:10)

time	[id] title	presenter
14:00	[39] More is Different	Prof. RADEMAKER, Louk
14:20	[7] The Hitchhiker's Guide to the Galaxy (peculiar velocities)	SORRENTI, Francesco
14:30	[27] CTLearn: Deep Learning Framework for Ground-based Gamma-ray Astronomy	Dr MIENER, Tjark
14:40	[25] FPGA Utilization for Addressing Data Challenges in the ATLAS Trigger System at HL LHC	AXIOTIS, Konstantinos
14:50	[3] Twist angle dependent electronic properties of monolayer molybdenum disulfide on Au(111)	PUSHKARNA, Ishita

15:00	[30] Controlling and investigating domain structures in PbTiO ₃ ferroelectric thin films and heterostructures	TOVAGLIERI, Ludovica
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Presentations: Afternoon 2 - H8 (16:10-17:10)

time	[id] title	presenter
16:10	[40] Review talk	Prof. CARRON, Julien
16:30	[17] Electronic structure of encapsulated mono- and bilayer T _d -MoTe ₂	ISSING, Julia
16:40	[29] Digital holography and artificial intelligence for real-time detection and identification of pathogenic airborne spores	BASSO, Tessa
16:50	[33] Advancing Superconducting Wire Technology: From monofilament to Industrial-Scale Nb ₃ Sn wires for the next generation of accelerator magnets	LONARDO, Francesco
17:00	[16] Nuclei analysis of the AMS-02 experiment with machine learning	Dr KHAN, Shahid