Session Program

26–27 Jan 2023

Zurich PhD Seminars 2022

Session

UZH, Y-11-F06
Irchel Campus

Thursday 26 January

09:00

Session: I

Session | **Convener:** Patrick Haworth Owen

09:00–09:30

Search for Lepton Flavour Universality Violation at the CMS experiment in Bc semileptonic decays

Speaker
Federica Riti

09:30–10:00

Test of lepton flavour universality in B+ → K+l+l− decays in high di-lepton invariant mass squared region

Speaker
Vadym Denysenko

10:00–10:30

Combination of Higgs Differential Production Cross Section and Effective Field Theory Interpretation

Speaker
Massimiliano Galli

10:30–11:00

Effects of Inter-Crystal Optical Separation Layers on Unwanted Light Crosstalk and on performance Parameters of the SAFIR PET/MR Scanner

Speaker
Pascal Laurent Bebie

11:00

11:30

Session: II

Session | **Convener:** Annapaola De Cosa

11:30–12:00 **Low energy leptons in high energy physics**

Speaker
Peter Eduard Meiring

12:00–12:30

Search for non-resonant production of semivisible jets with the CMS experiment

Speaker
Florian Eble

12:30–13:00 **Diffusion in the hyperfine-splitting experiment with muonic hydrogen**

Speaker
Jonas Nuber

13:00

14:00

Session: III

Session | **Convener:** Dr Ben Ohayon

14:00–14:30 **Laser System for the hyperfine splitting in muonic hydrogen**

Speaker
Lukas Affolter

14:30–15:00 **Muonic atom spectroscopy with radioactive targets**

Speaker
Stergiani Marina Vogiatzi

15:00–15:30
Wavelength-shifting materials & liquid argon instrumentation of the neutrinoless double beta (0νββ)-decay search experiment LEGEND

Speaker
Mrs Gabriela Rodrigues Araujo

15:30

16:00

Session: IV

Session | **Conveners:** Michelle Galloway, Michelle Galloway

16:00–16:30
The low-background germanium counting facility Gator for high-sensitivity γ-ray spectrometry

Speaker
Mr Alexander Bismark

16:30–17:00
Bayesian Calibration and Sensitivity Analysis of Non-Proportional Scintillation Models for Airborne Gamma-Ray Spectrometry Applications

Speaker
David Breitenmoser

17:00–17:30 **Characterization of passive CMOS sensors for the HL-LHC upgrade**

Speaker
Franz Glessgen

17:30

Friday 27 January

09:00

Session: V

Session | **Convener:** Andreas Adelmann

09:00–09:30

Serial powering for the Phase 2 upgrade of the CMS pixel detector and RD53A pixel module performance

Speaker
Vasilije Perovic

09:30–10:00 **Detection and Forecasting of particle accelerator interlocks**

Speaker
Sichen Li

10:00–10:30 **The High - Intensity Muon Beams (HIMB) project**

Speaker
Giovanni Dal Maso

10:30

11:00

Session: VI

Session | **Convener:** Iaroslava Bezshyiko

11:00–11:30 **Uncertainty Quantification for Characterising Spent Nuclear Fuel**

Speaker
Arnau Alba Jacas

11:30–12:00

Dead Time Effects and Image Quality Evaluation at High Activities for the SAFIR Dual Ring Prototype

Speaker
Jan Debus

12:00–12:30 **Low-energy nucleon structure at the precision frontier**

Speaker
Vladyslava. Sharkovska

12:30

13:30

Session: VII

Session | **Convener:** Xuan Chen

13:30–14:00

Quantum machine learning for classification and anomaly detection tasks in high energy physics

Speaker
Vasilis Belis

14:00–14:30

Antenna subtraction in colour space: automation and application to high-multiplicity processes

Speaker
Matteo Marcoli

14:30–15:00 **Status of OpenLoops at two loops**

Speaker
Natalie Schär

15:00

15:30

Session: VIII

Session | **Convener:** Alessandro Calandri

15:30–16:00
Exploration of the physical limits for Cherenkov positron emission tomography using tiny crystals and a large cube

Speaker
Sofiia Forostenko

16:00–16:30 **A muon beam of small phase space**

Speaker
Giuseppe Lospalluto

16:30–17:00 **ttH production at NNLO**

Speakers
Chiara Savoini, Chiara Savoini

17:00