

Session Program

Feb 15 - 17, 2023

NePSi 23

Young Researchers Session

Università di Pisa - Dipartimento di Fisica, Aula Magna - Dipartimento di Fisica
Largo Bruno Pontecorvo 3, I-56127, Pisa, Italy

Wed, February 15

10:00 AM

Young Researchers Session: g-2

Session |

Location: Università di Pisa - Dipartimento di Fisica, Aula Magna - Dipartimento di Fisica, Largo Bruno Pontecorvo 3, I-56127, Pisa, Italy

10:00 - 10:20 AM **Lattice calculation of the R-ratio smeared with Gaussian kernels**

Speaker

Alessandro De Santis

10:20 - 10:40 AM

Search for the direct production of slepton pairs in $\sqrt{s} = 13$ TeV pp collision with the ATLAS detector

Speaker

Matteo Greco

10:40 AM

12:10 PM

Young Researchers Session: g-2

Session |

Location: Università di Pisa - Dipartimento di Fisica, Aula Magna - Dipartimento di Fisica, Largo Bruno Pontecorvo 3, I-56127, Pisa, Italy

12:10 - 12:30 PM

Pseudoscalar meson contributions to the Hadronic Light-by-Light scattering in the muon -2

Speaker

Willem Verplanke

12:30 - 12:50 PM

Connected hadronic contribution to the muon g-2 from lattice QCD and QED

Speaker

Paola Tavella

12:50 PM

3:30 PM

Young Researchers Session: g-2

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3:30 - 3:50 PM **High precision calculations for the MUonE experiment**

Speaker

Ettore Budassi

3:50 - 4:10 PM **Single π^0 production in scattering at MUonE**

Speaker

Clara Lavinia Del Pio

4:10 PM

6:10 PM

Young Researchers Session: g-2

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6:10 - 6:30 PM **Kicker Transient Field Measurements for Muon g-2**

Speaker
David Kessler

6:30 - 6:50 PM

Correlating Charged Lepton $g - 2$ with Neutrino Magnetic Moments

Speaker
Sudip Jana

6:50 PM

Thu, February 16

9:30 AM

Young Researchers Session: Flavour Physics Tensions

Session |

Location: Università di Pisa - Dipartimento di Fisica, Aula Magna - Dipartimento di Fisica, Largo Bruno Pontecorvo 3, I-56127, Pisa, Italy

9:30 - 9:50 AM

A novel phenomenological approach to radiative leptonic Bs-meson decays

Speaker

Ludovico Vittorio

9:50 - 10:10 AM

Lepton flavour universality tests in $B \rightarrow s \ell \ell$ decays at LHCb experiment

Speaker

Alice Biolchini

10:10 - 10:30 AM

→ **decay in the high- q^2 region**

Speaker

Camille Normand

10:30 AM

12:20 PM

Young Researchers Session: Flavour Physics Tensions

Session |

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12:20 - 12:40 PM

The status of the MEGII experiment

Speaker

Antoine Venturini

12:40 - 1:00 PM

B-anomalies in non-universal models

Speaker

Javier M. Lizana

1:00 PM

3:20 PM

Young Researchers Session: Flavour Physics Tensions

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3:20 - 3:40 PM

Searching for Z' and Leptoquarks at Future Colliders

Speaker

Francesco Garosi

3:40 - 4:00 PM

Light-meson leptonic decay rates from lattice QCD+QED calculations

Speaker

Matteo Di Carlo

4:00 - 4:20 PM

Development of the data acquisition system for the Mu2e STM detector

Speaker

Claudia Alvarez Garcia

4:20 - 4:40 PM

The muEDM experiment

Speaker

Bastiano Vitali

4:40 PM

Fri, February 17

12:10 PM

Young Researchers Session: Topology and Axion Phenomenology

Session |

Location: Università di Pisa - Dipartimento di Fisica, Aula Magna - Dipartimento di Fisica, Largo Bruno Pontecorvo 3, I-56127, Pisa, Italy

12:10 - 12:30 PM **A Visible QCD Axion Portal to GeV Scale Dark Matter**

Speaker

Giovanni Armando

12:30 - 12:50 PM **Axion hot dark matter bound, reliably**

Speaker

Gioacchino Piazza

12:50 PM

3:00 PM

Young Researchers Session: Topology and Axion Phenomenology

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3:00 - 3:20 PM **Axion-like particles as mediators for dark matter: beyond freeze-out**

Speaker

Sophie Mutzel

3:20 - 3:40 PM

Nonresonant Searches for Axion-Like Particles in Vector Boson Scattering Processes at the LHC

Speaker

Jonathan Machado Rodríguez

3:40 - 4:00 PM

A new renormalizable model for ALP dark matter and its phenomenology

Speaker

Kodai Sakurai

4:00 PM