

SEMINARS AT LNF 2024

Studies and plans for the Future Circular Collider

Manuela Boscolo (LNF INFN)

17/1/2024

Axion Origins: towards a complete theory for the origin of the axion

Enrico Nardi (INFN LNF et al.)

25-26/1/2024

Go-based nanocomposites: Structural, Electrical, and Optical Properties

Lala Gahramanli (Baku State Univ.)

25/1/2024

Top and b mass effects in Higgs production at LHC

Vittorio Del Duca (LNF INFN)

7/2/2024

Natural SUSY, string landscape and implications for LHC

Howard Baer (Oklahoma Univ.)

8/4/2024

IRN Terascale@Laboratori Nazionali di Frascati

LNF, 15-17/4/2024

Helioscope Searches for Axion Phenomenology

Sebastian Hoof (INFN Padova)

23/4/2024

The Vcb puzzle: status and progress

Marzia Bordone (CERN)

24/04/2024

XXI LNF Spring School “Bruno Touschek” in Nuclear, Subnuclear and Astroparticle Physics

LNF 13-17/5/2024

Exploring the Higgs potential and its impact on the evolution of the early Universe

Georg Weiglein (DESY)

28/5/2024

The Nanoscience & Nanotechnology Conference

LNF, 3-6/6/2024

Machine Learning: from mammal's brain to statistical mechanics
Elena Agliari (Roma La Sapienza Univ.)
16/5/2024

Neutrino theory and phenomenology
Gabriela Barenboim (Valencia Univ.)
13/5/2024

Theories Beyond the Standard Model
Veronica Sanz (Valencia Univ.)
13/5/2024

Probing neutrino masses in the laboratory
Christoph Wiesinger (TUM Monaco)
15/5/2024

Searches for BSM physics at low energy: a theory overview
Martin Gonzalez Alonso
15/5/2024

BSM physics at high energies: an experimental review
Lowette Steven (Bruxelles Univ.)
13/5/2024

Dynamical origin of neutrino masses and dark matter from a new confining sector
Giacomo Landini (Valencia Univ.)
Collaborazione Scientifica periodo 21/5/2024-29/5/2024

Dark Radiation with Baryon Acoustic Oscillations from Desi 2024 and the HO
Alessio Notari (Barcellona Univ.)
24/5/2024

Understanding the building blocks of the colour structure of the multi-parton
scattering amplitudes beyond 3 loops
Anurag Tripathi
20/5/2024

Win-Win for LHC and CERN
Yogendra Narain Srivastava (Northeastern University, Boston, U.S.A.)
21/5/2024

New Higgses at the Electroweak Scale
Andrea Crivellin (PSI)
22/5/2024

Exploring the Higgs potential and its impact on the evolution of the early Universe
George Weiglein (DESY)
Collaborazione Scientifica 27/5-31/5

Higgs interference effects in top-quark pair production in the 1HSM
Alexander Lind (CNRS & Subatech Nantes)
4/6/2024

Studio del potenziale di scoperta dell'esperimento FLASH
Michael Zantedeschi (Tsung-Dao Lee Institute TDLI, Shanghai)
Collaborazione Scientifica 9/6-12/6

Studio del potenziale di scoperta dell'esperimento FLASH
Luca Visinelli (Tsung-Dao Lee Institute TDLI, Shanghai)
Collaborazione Scientifica 9/6-12/6

Axion emission from strange matter in core-collapse supernova events
Diego Guadagnoli (LAPTH CNRS)
Collaborazione Scientifica periodo 17/6/2024-20/6/2024

Dark Matter in QCD-like theories with a theta vacuum: cosmological and astrophysical implications
Oscar Zapata (Univ. Antioquia)
Seminario 18/6/2024

Esplorazione di argomenti su assione e astrofisica
Maurizio Giannotti (Zaragoza Univ.)
Collaborazione Scientifica 17/6-28/6

Calcolo dell'effetto di un campo di dark matter di assioni oscillante con applicazioni al futuro esperimento Flash
Claudio Toni (Padova Univ.)
Collaborazione Scientifica 17/6-21/6

Analytic QCD ingredients for NNLL resummation and parton showers
Mrinal Dasgupta (Manchester Univ.)
Collaborazione Scientifica 23/6-28/6

Quantum information processing and thermodynamics using 2D Heisenberg model in the strong-coupling limit
Amit Kumar Pal (Indian Institute of Technology Palakkad)
Collaborazione Scientifica 24/6-17/7

QCD axion couplings at finite density
Vincenzo Fiorentino (Padova Univ.)
25/6/2024

Solving Beautiful Puzzles

Keri Vos (Maastricht Univ. & NIKHEF)

3/7/2024

Student's Rehearsal: extending the range of resonant pseudoscalar production using atomic electrons

Leo Veissiere (ENS)

5/7/2024

Dark Matter at FCC

Alessandro Dondarini (INFN-Sezione Pisa ed Università di Pisa)

Collaborazione Scientifica 8/7-12/7/2024

Dark Matter at FCC

Giulio Marino (INFN-Sezione Pisa ed Università di Pisa)

Collaborazione Scientifica 8/7-12/7/2024

The effective theory of right-handed neutrinos at collider

Daniele Barducci (INFN-Sezione Pisa ed Università di Pisa)

11/7/2024

Constraining majoron by Big Bang Nucleosynthesis

Sougata Ganguly (Chungnam Nat. Univ., Korea)

16/7/2024

Dark Matter and Minimal Flavour Violation

Keyun Wu (Barcellona Univ.)

Collaborazione Scientifica 22-28/7/2024

Putting it all together: what we can learn from BSM global fits

Anders Kvellestad (Oslo Univ.)

19/9/2024

Going beyond the Standard Paradigm

Alberto Salvio (Tor Vergata Univ.)

25/9/2024

New Physics in B decays: bugs or features?

Marco Fedele (Valencia Univ.)

26/9/2024

Deflecting Dark Matter for the experimnti Flash

Momchil Naydenov (Sofia Univ.)

Collaborazione Scientifica 23/9-4/10/2024

FCC-hh performance requirements and detector design
Martin Aleksa (CERN)
2/10/2024

High-density QCD physics and the study of the QGP in the high-lumi LHC era
Jonas Florian (CERN)
2/10/2024

Introduction to Soft-Collinear Effective Theory and recent applications for LHC phenomenology
Alessandro Broggio (Vienna Univ.)
2/10/2024

Energy Correlators at the Collider Frontier
Ian Mould (Yale Univ.)
2/10/2024

FCC-hh: Detector Requirements and Concepts
Michele Selvaggi (CERN)
2/10/2024

FCC-hh: studies: what's next
Michelangelo Mangano (CERN)
2/10/2024

Shower accuracy (NLL and beyond)
Daniel Reichelt (CERN)
2/10/2024

Opportunities in flavor physics : a theorist's point of view
Claudia Cornella (MITP CERN)
3/10/2024

Theory: SWEFT (not Higgs, more Top and EW)
Victor Miralles (Manchester Univ.)
4/10/2024

New Measurements of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay by the NA62 Experiment
Joel Swallow (LNF INFN)
8/10/2024

Dark Matter: from freeze-in to gravitational production
Davide Racco (ETH Zurich)
9/10/2024

Atoms as electron accelerators: leveraging atomic electron momentum distribution in fixed target experiments
Giovanni Grilli di Cortona (LNGS INFN)
16/10/2024

We are going to revisit top decays in view of future collider within different models and several flavours ansatz
Miriam Bulliri
Collaborazione Scientifica 20/10-21/11/2024

Quantum information in Collider Physics. Update of the constraints from direct searches for BSM physics at the LHC
Kazuki Sakurai (Warsaw Univ.)
Collaborazione Scientifica 27/10/2024-31/10/2024

An extended overview on $B \rightarrow D^{(*)} \ell \bar{\nu}$ decays within the Standard Model
Ludovico Vittorio (LAPTh, Annecy)
29/10/2024

Research and development at the DAFNE-L and LASR3 laboratories: preliminary results achieved on an unknown version of the painting “Lo Spasimo di Palermo”
Costanza Barbieri (Accademia Belle Arti), Giulia Iorio (LASR3, Sezione INFN-RM3), Lucilla Pronti, Mariangela Cestelli Guidi (LNF INFN), Martina Romani (LNF INFN), Noemi Zappala’ (Accademia Belle Arti)
30/10/2024

Suppression of pair beam instabilities in a Laboratory analogue of blazar pair cascades
Gianluca Gregori (Oxford Univ.)
6/11/2024

NNLO Subtraction methods
Gabor Somogyi (Wigner Research Center for Physics)
Collaborazione Scientifica 10-16/11/2024

Working on Thermal production of axions
Robert Ziegler (Karlsruhe Inst.)
Collaborazione Scientifica 10-15/11/2024

Dark Matter and Minimal Flavour Violation
Shohei Okawa (KEK)
Collaborazione Scientifica 17/11-22/11/2024

Dark Matter and Minimal Flavour Violation
Giacomo Landini (Valencia Univ.)
Collaborazione Scientifica 17/11-22/11/2024

Dark Matter and Minimal Flavour Violation
Ryutaro Matsudo (KEK)
Collaborazione Scientifica 17/11-22/11/2024

PMT Simulation for CYGNO Experiment
Luan Gomes Mattosinhos de Carvalho
Collaborazione Scientifica 23/11-3/12/2024

T-Channel Dark Matter Simplified Models
Luca Panizzi (Calabria Univ.)
Collaborazione Scientifica 24-28/11/2024

On the Origin of Neutrino Masses
Pavel Fileviez Perez (Case Western Reserve University)
27/11/2024

Esplorazione di argomenti su assione e astrofisica
Momchil Naydenov
Collaborazione Scientifica 2-5/12/2024

Advances and Prospects in Feynman Integral Calculus for Precision Collider Physics
Vsevolod Chestnov (INFN)
3/12/2024

Probing the Transverse Momentum of Longitudinally Polarized Quarks
Matteo Cerutti (Jefferson Lab)
10/12/2024

Exploring the Strong Interaction of Three-Body Systems at the LHC
Oton Vazquez Doce (INFN)
11/12/2024

Two Axion Systems
Kristjan Muursepp (NICPB, Tallin)
Collaborazione Scientifica 15-20/12/2024

Five Parton scattering in QCD at two loops
Lorenzo Tancredi (TUM Munchen)
Collaborazione Scientifica 15-20/12/2024

Working on new constraints for Dark Sectors
Claudio Toni (Roma Univ.)
Collaborazione Scientifica 17-20/12/2024

Accidentally Light Scalars from Large Representations: Inflation and Gravitational
Waves
Giacomo Ferrante (Montpellier Univ.)
19/12/2024