

2023 PROGRAMME OF ACTIVITIES

JANUARY

30.1-2.2 **Structure and topology of RNA in living systems** 10-28.7
L. TUBIANA (University of Trento), S. PASQUALI (University Paris Cité), A. BOZIC (IJS, Ljubljana)

FEBRUARY

20-24.2 **LaVA Meeting** 10-14.7
C. BONANNO (INFN Firenze), M. P. LOMBARDO (INFN Firenze), M. PEARDON (Trinity College Dublin)

MARCH

13-17.3 **Holographic Perspectives on Chiral Transport** 17-21.7
K. LANDSTEINER (IFT-UAM/CSIC Madrid), U. GURSOY (University of Utrecht), M. KAMINSKI (University of Alabama), D. KHARZEEV (Stony Brook)

20-24.3 **The Gradient Flow in QCD and other Strongly Coupled Field Theories** 31.7-4.8
C. MONAHAN (William & Mary), R. HARLANDER (University of Aachen), A. HASENFRATZ (University of Colorado, Boulder), O. WITZEL (Siegen University)

MAY

2-5.5 **Quantum Science Generation | QSG** 21-25.8
D. DE BERNARDIS (INO-CNR BEC Center), V. AMITRANO (University of Trento - INO-CNR), A. BALDAZZI (University of Trento), A. BERTI (University of Trento - INO-CNR), I. CARUSOTTO (INO-CNR BEC Center), D. CONTESSI (University of Trento - INO-CNR), A. NARDIN (University of Trento - INO-CNR), L. PAVESI (University of Trento, Italy)

15-19.5 **Color Glass Condensate at the Electron-Ion Collider*** 4-8.9
D. TRIANTAFYLLOPOULOS (ECT*), N. ARMESTO (University of Santiago de Compostela), E. IANCU (University of Paris-Saclay, IPHT), T. LAPPI (University of Jyväskylä)

22-26.5 **From First-Principles QCD to Experiments*** 11-15.9
M. HUBER (Giessen University), G. EICHMANN (LIP Lisboa), M. P. LOMBARDO (INFN Firenze), P. MARIS (Iowa State University), J. M. PALOWSKI (Heidelberg University)

29.5-1.6 **2nd CMS Heavy Ion Workshop: Bringing Together the LHC Heavy Ion Community** 18-22.9
G. KRINTIRAS (The University of Kansas), Y.J. LEE (MIT), W. LI (Rice University), C. LOURENCO (CERN), A. STAHL (CERN)

JUNE

5-9.6 **Nuclear and Particle Physics on a Quantum Computer: Where do we stand now?** 25-29.9
A. BAZAVOV (Michigan State University), Z. DAVOUDI (University of Maryland), D. LEE (Michigan State University), A. ROGGERO (University of Trento), S. SCHADMAN (GSI Darmstadt), I. JAEGLE (Jefferson Lab), B. KUBIS (HISKP Bonn), D. LERSCH (FSU Tallahassee)

19-23.6 **Quantum Simulation of Gravitational Problems on Condensed Matter Analog Models** 23-27.10
I. CARUSOTTO (INO-CNR BEC Center), R. BALBINOT (University of Bologna), G. FERRARI (University of Trento), M. RINALDI (University of Trento)

26-30.6 **Machine Learning for Lattice Field Theory and Beyond**
D. HACKETT (MIT), G. AARTS (Swansea University & ECT*), D. BACHTIS (Swansea University), B. LUCINI (Swansea University), P. SHANAHAN (MIT)

JULY

3-7.7 **COLMO: Quantum Collapse Models investigated with Particle, Nuclear, Atomic and Macro systems**
C. CURCEANU (INFN-LNF), A. BASSI (University and INFN Trieste), M. DERAKHSHANI (Rutgers University), L. DIOSI (University Budapest), S. DONADI (INFN Trieste), K. PISCICCHIA (CREF)

Doctoral Training Program: Ab Initio Methods and Emerging Technologies for Nuclear Structure
C. BARBIERI (University of Milan), A. ROGGERO (University of Trento)

Tensor Spin Observables **
K. SLIFER (University of New Hampshire), D. HIGINBOTHAM (JLab), D. KELLER (University of Virginia), E. LONG (University of New Hampshire)

Short-Distance Nuclear Structure and PDF *
N. FOMIN (University of Tennessee), J. ARRINGTON (LBNL), W. COSYN (Florida International University), N. ROCCO (Fermi National Laboratory)

Quantum Sensing and Fundamental Physics with Levitated Mechanical Systems
A. VINANTE (INFN-CNR), D. BUDKER (Johannes Gutenberg University Mainz), G. HETET (École Normal Supérieure Paris), H. ULBRICHT (University of Southampton)

AUGUST

21-25.8 **ECT*-APCTP Joint Workshop: Exploring Resonance Structure with Transition GPDs ***
S. DIEHL (Justus Liebig University Giessen), V. BRAUN (University Regensburg), K. JOO (University of Connecticut), Y. OH (Kyungpook National University), C. VAN HULSE (University of Alcalá, Madrid), C. WEISS (Jlab)

SEPTEMBER

4-8.9 **Many-Body Quantum Physics with Machine Learning**
A. RIOS HUGUET (Institute of Cosmos Sciences, University of Barcelona), G. CARLEO (EPFL), E. INACK (PITP), A. LOVATO (ANL & TIFPA)

11-15.9 **MICRA2023: Microphysics in Computational Relativistic Astrophysics***
E. O'CONNOR (Stockholm University), C. FROHLICH (Carolina State University), A. PEREGO (University of Trento)

18-22.9 **Parton Distribution Functions at a Crossroad ***
M. DING (Helmholtz Zentrum Dresden Rosendorf), J. PAPAVALASSIOU (University of Valencia), C. QUINTANS (LIP, Lisbon), C. ROBERTS (Nanjing University)

25-29.9 **Strongly Interacting Matter in Extreme Magnetic Fields ***
S. VARESE (UNICAMP), A. AYALA (UNAM), D. BLASCHKE (University of Wrocław), G. ENDRODI (University of Bielefeld), R. FARIAS (Universidade Federal de Santa Maria)

OCTOBER

9-13.10 **ROCKSTAR: Towards a Roadmap of the Crucial measurements of Key observables in Strangeness reactions for neutron sTARS equation of state ****
A. SCORDO (LNF-INFN), D. BOSNAR (University of Zagreb), C. CURCEANU (LNF-INFN), A. RAMOS (Institut de Ciències del Cosmo, Barcelona), F. SAKUMA (RIKEN), O. VAZQUEZ-DOCE (LNF-INFN), I. VIDANA (INFN Catania)

23-27.10 **Critical Stability of Few-Body Quantum Systems ***
A. KIEVSKY (INFN Pisa), T. FREDERICO (Istituto Tecnologico de Aeronautica), O. FYNBO (Aarhus University), J.M. RICHARD (Institut de Physique des 2 Infinis de Lyon)

NOVEMBER

20-24.11 **ALPACA: modern ALgorithms in machine learning and data analysis: from medical Physics to research with Accelerators and in underground laboratories ****
F. NAPOLITANO (INFN Frascati), R. DEL GRANDE (TU Munich), F. GROSA (CERN), M. SKURZOK (Jagiellonian University Krakow)

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