

## 2024 PROGRAMME OF ACTIVITIES

### FEBRUARY

5-9.2

alpha\_S(2024): Workshop on Precision Measurements of the Strong Coupling Constant  
D. D'ENTERRIA (CERN), S. KLUTH (MPP), G. ZANDERIGHI (MPP)

12-16.2

New Jet Quenching Tools to Explore Equilibrium and Non-Equilibrium Dynamics in Heavy-Ion Collisions  
A. SADOFYEV (LIP), C. ANDRES (LIP), J. BARATA (BNL), C. SALGADO (IGFAE)

26.2-1.2

Inaugural Workshop on Nuclear Astrochemistry  
N. MASON (University of Kent), D. BEMMERER (HZDR), E. MASHA (HZDR), D. MIFSUD (Atomki)

### MARCH

04-08.2

EDMs: Complementary Experiments and Theory Connections  
S. DEGENKOLB (Heidelberg University), P. SCHMIDT-WELLENBURG (Paul Scherrer Institute), G. PIGNOL (LPSC), J. DE VRIES (University of Amsterdam), R. BERGER (Philipps-Universität Marburg)

### APRIL

15-19.4

Bridging Scales: At the Crossroads among Renormalisation Group, Multi-Scale Modelling, and Deep Learning  
R. MENICHETTI (University of Trento), F. PEDERIVA (University of Trento), R. POTESTIO (University of Trento), A. ROGGERO (University of Trento)

22-26.4

The Physics of Strongly Interacting Matter: Neutron Stars, Cold Atomic Gases and Related Systems  
A. SCHWENK (TU Darmstadt), F. FERLAINO (University of Innsbruck), C. PETHICK (Niels Bohr Institute), A. WATTS (University of Amsterdam)

### MAY

6-10.5

Quantum Science Generation 2024  
D. DE BERNARDIS (INO-CNR), V. PANIZZA (University of Trento), L. VESPUCCI (University of Trento), A. BALDAZZI (University of Trento), V. AMITRANO (University of Trento), C. BENAVIDES-RIVEROS (INO-CNR), A. BERTI (INO-CNR), A. NARDIN (University of Trento)

13-17.5

SPICE: Strange Hadrons as a Precision Tool for Strongly Interacting Systems  
J. POCHODZALLA (University of Mainz), C. CURCEANU (INFN-LNF), B. DOENIGUS (University of Frankfurt), L. FABBIETTI (TU Munich), S. NAKAMURA (University of Tokyo), F. SAKUMA (RIKEN), I. VIDANA (INFN Catania)

20-24.5

Beyond-Eikonal Methods in High-Energy Scattering  
J. JALILIAN-MARIAN (Baruch College), A. CZAJKA (NCBJ), Y. KOVCHEGOV (Ohio State University)

27-31.5

Machine Learning and the Renormalization Group  
J. URBAN (MIT), D. HACKETT (Fermilab), A. HASENFRATZ (University of Colorado Boulder), J. PAWLOWSKI (Heidelberg University), B. LUCINI (Swansea University)

### JUNE

3-7.6

A Modern Odyssey: Quantum Gravity meets Quantum Collapse at Atomic and Nuclear Physics Energy Scales in the Cosmic Silence  
C. CURCEANU (INFN-LNF), A. BASSI (University and INFN Trieste), L. BAUDIS (University of Zurich), A. MARCIANO (Fudan University China), K. PISCICCHIA (CREAF & Centro Ricerche Enrico Fermi), L. DIOSI (Wigner, University of Budapest)

10-14.6

Diffraction and Gluon Saturation at the LHC and the EIC  
C. ROYON (University of Kansas), M. HENTSCHINSKI (Universidad de las Americas Puebla), A. SABIO VERA (Universidad Autonoma de Madrid), S. SCHLICHTING (University of Bielefeld), A. DESHPANDE (Stony Brook University)

17-21.6

Towards a Consistent Approach for Nuclear Structure and Reaction: Microscopic Optical Potentials  
C. BARBIERI (University of Milan), C. ELSTER (Ohio University), C. HEBBORN (FRIB), A. OBERTELLI (TU Darmstadt)

### JULY

1-5.7

New Opportunities and Challenges in Nuclear Physics with High Power Lasers  
C.J. YANG (ELI-NP), K. SPOHR (ELI-NP), P. TOMASSINI (ELI-NP), Y. FUKADA (Kansai Photon Science Institute), V. HORNY (ELI-NP), L. GIZZI (INO), D. DOMENICO (ELI-NP)

8-12.7

Synergies between LHC and EIC for Quarkonium Physics  
F. CELIBERTO (Universidad de Alcalà), C. VAN HULSE (Universidad de Alcalà), J.P. LANSBERG (CNRS), D. KIKOLA (Warsaw University of Technology), D. BOER (University of Groningen), E. GONZALES-FERREIRO (IGFAE), C. FLORE (University of Turin)

15.7-2.8

DTP/TALENT: Training in Advanced Low Energy Nuclear Theory: Nuclear Theory for Astrophysics  
A. ARCONES (TU Darmstadt & GSI), B. GIACOMAZZO (University of Milano-Bicocca), J. PIEKAREWICZ (Florida State University)

### AUGUST

5-9.8

Towards Improved Hadron Tomography with Hard Exclusive Reactions  
M. BOER (Virginia Tech), A. CAMSONNE (Jlab), J. WAGNER (NCBJ)

19-23.8

The Nuclear Interaction: Post-Modern Developments  
R. TIMMERMANS (University of Groningen), J. MCGOVERN (University of Manchester), M. PIARULLI (Washington University), U. VAN KOLCK (JLab Orsay)

### SEPTEMBER

9-13.9

New Developments in Studies of the QCD Phase Diagram  
H. DING (Central China Normal University), F. KARSCH (University of Bielefeld), M.P. LOMBARDO (INFN Florence), P. PETRECZKY (BNL)

16-20.9

Spin and Quantum Features of QCD Plasma  
F. BECATTINI (University and INFN Florence), X. HUANG (Fudan University), D. RISCHKE (Goethe University Frankfurt), Y. YIN (CAS)

30.9-4.10

KAMPAL - Kaonic, Antiprotonic, Muonic, Pionic and "onia" exotic Atoms: Interchanging Knowledge  
A. SCORDO (INFN Frascati), P. INDELICATO (Laboratoire Kastler Brossel), J. OBERTOVA (Czech Technical University, Prague), C. CURCEANU (INFN-LNF), A. KNECHT (PSI), M. SKURZOK (Jagiellonian University of Krakow), T. HASHIMOTO (JAEA)

### OCTOBER

14-25.10

Measuring Neutrino Interactions for Next-Generation Oscillation Experiments  
S. DOLAN (CERN), C. WILKINSON (LBNL), C. WRET (University of Oxford), L. PICKERING (Rutherford Appleton Laboratory)

### NOVEMBER

4-8.11

Universal Themes in Bose-Einstein Condensation  
J. CARUSOTTO (INO-CNR BEC Center), T. GIAMARCHI (University of Geneva), G. FERRARI (University of Trento), D. SNOKE (University of Pittsburgh), P. LITTLEWOOD (University of Chicago), F. M. MARCHETTI (UAM), N. PROUKAKIS (University of Newcastle)

### DECEMBER

02-06.12

Penetrating Probes of Hot High- $\mu_B$  matter: Theory Meets Experiment  
E. SCOMPARIN (INFN Turin), T. GALATYUK (TU Darmstadt), M.P. Lombardo (INFN Florence), R. RAPP (Texas A&M University), G. USAI (University Cagliari)

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