INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
GRAVITY AND MATTER IN THE SUBNUCLEAR WORLD
58th Course – ERICE-SICILY, 15 – 24 JUNE 2022

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PROGRAMME AND LECTURERS

OPENING LECTURE

Engaged physics: our future, quantum gravity and the role of feedback – a new paradigm

A. BOSE, INFN, Trieste, IT

THEORY, PHENOMENOLOGY & EXPERIMENTS

Designing the ultimate test of quantum mechanics and gravity

A. ALI-TURKISH, INFN, Padua, IT

Outlook in subnuclear physics. The quest for new physics

M. DIAZ, Max Planck Institute for Physics, Munich, DE

The LHC and the search for physics beyond the Standard Model

W. ZELENSKI, Université de Paris, France

M. GODFREY, SNS, Frascati, IT

What kind of astrophysical and dark matter? – a country perspective

M. OLAH, AlbaNova University, Sweden

S. HERRMANN, University of Bielefeld, Germany

QCD and the Higgs: a country perspective

M. DE RENZI, INFN, Bologna, IT

S. MUKHOPADHYAY, Indian Institute of Technology, Kolkata, IN

QCD: status and outlook

D. BOSSO, INFN, Padua, IT

S. KAMAL, University of Delhi, India

S. LEGGER, INFN, Padua, IT

THE EXPERIMENTAL PROGRAMME – a country perspective

H. WANG, INFN, Padua, IT

S. SOYER, University of Edinburgh, UK

ANALYSIS AND SIMULATION – a country perspective

C. BOSI, INFN, Pisa, IT

S. DEHAAS, Utrecht University, NL

S. LEHNER, University of Oxford, UK

M. SCHMIDT, University of Bielefeld, Germany

SURVEY CONTRIBUTIONS

THE BRIDGE BETWEEN UNIVERSITY TEACHING AND EXPERIMENTAL PHYSICS IN SUBNUCLEAR SCIENCE

The Physicists, NuMaFos Foundation and Centre for Scientific Culture, University of Palermo, IT

The Future of Physics

The Physicists, NuMaFos Foundation and Centre for Scientific Culture, University of Palermo, IT

THE FUTURE OF SCIENCE IN SUBNUCLEAR PHYSICS

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