

# «ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

TO PAY A PERMANENT TRIBUTE TO ARCHIMEDES AND GALILEO GALILEI, FOUNDERS OF MODERN SCIENCE  
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



## SUMMARY OF THE 2021 COURSES – ERICE



All Courses are sponsored by the World Federation of Scientists (WFS), the Sicilian Regional Government (ERS), the Italian Ministry of Education, University and Scientific Research and the Galileo Galilei Foundation (GGF). Some of the Courses are under the sponsorship of the Italian Ministry of Foreign Affairs, the Italian Ministry of Health, the North Atlantic Treaty Organization (NATO), the American National Science Foundation (NSF), the Italian National Research Council (CNR), the Weizmann Institute of Science, the European Physical Society (EPS), the Italian National Institute for Nuclear Physics (INFN), the Enrico Fermi Historical Museum of Physics and Study and Research Centre, the World Wildlife Fund (WWF), the Commission of the European Communities (CEC), some of the main Italian and foreign Universities and Research Centres, and the World Laboratory

- INTERNATIONAL SCHOOL ON BIOELECTROMAGNETISM «ALESSANDRO CHIABRERA»  
Directors: F. BERSANI – M.R. SCARFÌ  
10th Workshop: *THz Bio*  
Directors: G.P. GALLERANO – O. ZENI  
19 – 23 April 2021
- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY  
Director: T.L. BLUNDELL  
55th Course: *Molecular crystal engineering*  
Directors: U. GRIESSER – M. LUSI – L. MAINI  
28 May – 6 June 2021
- PROJECT FINAL MEETING E.U. I.C.A.R.E (INTEGRATION AND COMMUNITY CARE FOR ASYLUM AND REFUGEES IN EMERGENCY)  
Director: A. SPARACO  
11 – 12 June 2021
- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»  
Directors G.M. FARA – G. GIAMMANCO – C. SIGNORELLI – M. SZKLO – F. VITALE  
57th Course: *Re-thinking, designing and managing the salutogenic cities*  
Directors: S. CAPOLONGO – A. CASUCCIO – D. D'ALESSANDRO – M. FERRANTE  
24 – 29 June 2021
- INTERNATIONAL SEMINAR ON FETAL AND NEONATAL PHYSIOLOGICAL SOCIETY  
Directors: D. GAZZOLO – D.A. GIUSSANI – A. ROLFO  
1 – 3 July 2021
- INTERNATIONAL SCHOOL OF WATER AND WATER SYSTEM  
Directors: R. CAR – F. MALLAMACE – L.G.M. PETTERSON  
3rd Course: *Confined and heterogeneous polymer systems*  
Directors: F. GRECO – G. MENSITIERI  
6 – 7 July 2021
- INTERNATIONAL SCHOOL OF PHARMACOLOGY «GIAMPAOLO VELO»  
Director: P. MINUZ  
90th Workshop  
Director: P. MINUZ  
9 – 19 July 2021

- INTERNATIONAL SCHOOL OF NEUTRON SCIENCE AND INSTRUMENTATION  
Directors: C. ANDREANI – R.M.G. CACIUFFO – R. MCGREEVY  
7th Course  
Director: C. ANDREANI  
9 – 19 July 2021
  
- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»  
Directors: F. GIANNESSE – now G. BUTTAZZO – M. THÉRA  
74th Course: *Variational analysis and applications*  
Directors: J. BOLTE – G. DAL MASO  
28 July – 5 August 2021
  
- INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE  
Director: J.D. PUGLISI  
18th Course: *Frontiers in Biophysics and Structural Biology*  
Directors: J.D. PUGLISI – E. VIANI  
29 July – 6 August 2021
  
- INTERNATIONAL MEETING ON ORTHOPEDICS  
Director: C. SUGAMELI  
27 August - 1 September 2021
  
- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»  
Directors: F. GIANNESSE – now G. BUTTAZZO – M. THÉRA  
75th Workshop: *Mathematics and computation of financial engineering*  
Directors: A. CAPPONI – P. GUASONI  
1 – 7 September 2021
  
- INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»  
Directors: P. PALANZA – S. PARMIGIANI  
48th Course: *Personality and evolution in animals and humans*  
Directors: C. CARERE – D. MAESTRIPIERI  
8 – 14 September 2021
  
- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA  
Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO  
1st Course: *New trends in topological states of matter and nonequilibrium statistical mechanics*  
Directors: A. CAROLLO – A. LANZARA – M.G. PALMA – B. SPAGNOLO  
8 – 14 September 2021
  
- INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS  
Directors: M. BUBALLA – A. FAESSLER – C. FISCHER  
42nd Course: QCD under extreme conditions – from heavy-ion collisions to the phase diagram  
Directors: M. BUBALLA – A. FAESSLER – C. FISCHER  
16 – 24 September 2021
  
- GIORNATE INTERNAZIONALI DI STUDI SULL'AREA ELIMA «GIUSEPPE NENCI»  
*Ottave Giornate Internazionali di Studi sull'Area Elima e la Sicilia Occidentale nel Contesto Mediterraneo*  
Director: R. GIGLIO  
25 – 30 September 2021
  
- INTERNATIONAL SCHOOL OF LIQUID CRYSTALS  
Director: C. ZANNONI  
26th Workshop: *Biophotonics at nanoscale: From smart nanomaterials to advanced optical technologies for life, environmental science and nanomedicine*  
Directors: A. D'ALESSANDRO – P. PASINI – C. ZANNONI  
25 – 30 September 2021

- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS  
Directors: P. HÄNGGI – F. MARCHESONI  
23rd Workshop: Artificial and Intelligent Living Matter  
Directors: A. DOOSTMOHAMMADI – M. MAZZA – T. SHENDRUK – H. STARK  
1 – 7 October 2021
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS  
Director: G. BENEDEK  
76th Course: *Fundamental mechanisms to drive progresses in organic, and large-area bioelectronics*  
Directors: F. BISCARINI – R. OWENS – A. SALLEO – L. TORSI  
9 – 15 October 2021
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS  
Director: G. BENEDEK  
77th Workshop: *Unconventional computing: Materials science, informatics, hardware, software*  
Directors: A. ADAMATZKY – M. FANCIULLI – W.G. VAN DER WIEL  
9 – 15 October 2021
- INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS  
Directors: A.N. CHESTER – D.S. WIERSMA  
64th Course: *Progress in photoacoustic and photothermal phenomena: Focus on biomedical, nanoscale, NDE and thermophysical phenomena and technologies*  
Directors: R. LI VOTI – A. MANDELIS  
16 – 23 October 2021
- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS  
Director: G. BENEDEK  
79th Course: *Majorana fermions and quantum complex matter*  
Directors: A. BIANCONI – Y. MAENO  
1 – 7 November 2021
- INTERNATIONAL SCHOOL OF PHARMACOLOGY «GIAMPAOLO VELO»  
Director: P. MINUZ  
91st Course: *Predicting and preventing patient harm from medicines – moving from words to action*  
Directors: M. LINDQUIST – U. MORETTI – K. STAR  
8 – 14 November 2021
- INTERNATIONAL SCHOOL OF PHARMACOLOGY «GIAMPAOLO VELO»  
Director: P. MINUZ  
92nd Course: *Common mechanisms of disease in atherothrombosis and cancer: From mediators to clinical trials*  
Directors: P. MINUZ – C. PATRONO – P. PATRIGNANI  
8 – 14 November 2021
- INTERNATIONAL SCHOOL OF NEAR-EARTH OBJECT  
1st Course: *Defending the earth against the near-earth objects impact hazard: An interdisciplinary task*  
Directors: A. CELLINO – S. DI PIPPO  
8 – 14 November 2021
- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA  
Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO  
2nd Course: *Chaos and information dynamics in quantum many body systems*  
Directors: D.A. ABANIN – A. POLKOVNIKOV – A. SILVA  
15 – 20 November 2021
- INTERNATIONAL SCHOOL OF BRAIN CELLS AND CIRCUITS «CAMILLO GOLGI»  
Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT  
6th Course  
Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT  
30 November – 4 December 2021

- INTERNATIONAL SCHOOL OF IUS COMMUNE  
Directors: M. BELLOMO – O. CONDORELLI – W. DECOCK – K. PENNINGTON  
40th Course: *Ethics, public offices, and the ethical conduct of office holders*  
Directors: O. CONDORELLI – H. REIMITZ  
13 – 17 December 2021

**More information about the activities of the Ettore Majorana Foundation  
can be found on the WWW at the following address:  
<http://www.ccsem.infn.i>**