«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE ets

FOUNDED BY ANTONINO ZICHICHI

SUMMARY OF THE 2026 COURSES — ERICE

Courses are sponsored by the Italian National Institute for Nuclear Physics (INFN), the Sicilian Regional Government and the World Laboratory.

- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
  Directors: A. ZICHICHI – A.E. CARDINALE – I.U. CARRECA
  164 Course: *Obesity in mankind: An up to date*
  Directors: S. BUSCEMI – I.U. CARRECA
  5 – 7 February 2026

- INTERNATIONAL SCHOOL OF MULTISCALE MATHEMATICAL MODELS FOR MULTI-AGENT SYSTEMS
  Directors: F. BAGARELLO – R.N. MANTEGNA – V. ROMANO
  1st Course: *Mathematical models and methods for many agent systems*
  Directors: F. BAGARELLO – R.N. MANTEGNA – V. ROMANO
  1 – 6 March 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  16th Workshop: *aDvanced Analysis and Modeling of AcousTIc Responses of plAnt*s (DAMATIRA)
  Directors: A. MAFFEZZOLI – G. MARSELLA – E. MASI – G. SALERNO
  7 – 10 March 2026

- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
  Directors: P. HÄNGGI – F. MARCHESONI
  28th Course: *Artificial and Intelligent Living Matter II*
  Directors: A. DOOSTMOHAMMADI – M.G. MAZZA – T. SHENDRUK – H. STARK
  21 – 26 March 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  17th Course: *Fluctuations in light-matter interaction: Quantum and thermal emerging regimes*
  Directors: M. ANTEZZA – M. CENTINI – G. DE CHIARA
  29 March – 3 April 2026

- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
  Directors: G. BENEDEK – G.G. CHIRICO – S. PICOZZI
  92nd Workshop: *Unconventional computing - WUC 3*
  Directors: V. BRAGAGLIA – M. FANCIULLI – S. STEPNEY – W.G. VAN DER WIEL
  7 – 13 April 2026

- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
  Directors: G. BENEDEK – G.G. CHIRICO – S. PICOZZI
  93rd Workshop: *Non-equilibrium phenomena in strongly correlated ultracold matter*
  Directors: G. DEL PACE – M. INGUSCIO – G. ROATI
  13 – 19 April 2026

- INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»
  Directors: P. PALANZA – S. PARMIGIANI
  60th Course: *Evolution in Psychotherapy: Current approaches and new directions*
  Director: M. DEL GIUDICE
  14 – 18 April 2026

- INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»
  Directors: P. PALANZA – S. PARMIGIANI
  61st Course: *Complexity in mental health. The interplay between brain, behavior and context*
  Directors: I. BRANCHI – F. CIRULLI
  26 April – 1 May 2026

- INTERNATIONAL SCHOOL ON ARTIFICIAL INTELLIGENCE TECHNOLOGY AND LAW
  Directors: P. DUGGAL – A. LEHMANN – P.P.M. MENCHETTI
  1st Course: *AI technology and law*
  Directors: A. LEHMANN – P.P.M. MENCHETTI
  26 April – 1 May 2026

- INTERNATIONAL SCHOOL ON BIOELECTROMAGNETISM «ALESSANDRO CHIABRERA»
  Directors: F. BERSANI – M.R. SCARFÌ
  13rd Course: *Bioelectromagnetic systems for innovative high-performance sensing and interaction strategies*
  Directors: N. CENNAMO – K. GRENIER
  2 – 7 May 2026

- INTERNATIONAL SCHOOL OF EPIDEMIOLOGY AND PREVENTIVE MEDICINE «GIUSEPPE D'ALESSANDRO»
  Directors: G.M. FARA – G. GIAMMANCO – C. SIGNORELLI – M. SZKLO – F. VITALE
  65th Course: *Health equity: Knowledge, skills, and public health strategies in an increasingly unequal world*
  Directors: G. GRAZIANO – L. TAVOSCHI
  3 – 7 May 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  18th Workshop: *Universality in Physics*
  Directors: I. CORWIN – V. GALITSKI
  8 – 12 May 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  19th Course: *Physics for Health (PfH): New perspectives in medical applications and radiation safety*
  Directors: F. D'ERRICO – M. MARRALE – C. L1ENARDI
  8 – 12 May 2026

- INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
  50th Course: *Ion channels and transporters: From atoms to cellular context*
  Directors: A. ACCARDI – A. MORONI – S. PLESS
  13 – 19 May 2026

- INTERNATIONAL SCHOOL ON TREASURES OF ART AND SCIENCE
  Director: L. ZICHICHI
  24th Seminar: *Scientists for a day: The youngest in Erice*
  Director: L. ZICHICHI
  19 – 20 May 2026

- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»
  Directors: G. BUTTAZZO – M. THÉRA
  81st Course: *New directions in nonlinear PDE*
  Directors: A. PISTOIA – S. TERRACINI – B. VELICHKOV – T. WETH
  20 – 27 May 2026

- PhD SCHOOL ON TECHNOLOGIES IN GRAVITATIONAL WAVES DETECTION
  Directors: L. NATICCHIONI – F. TRAVASSO
  20 – 27 May 2026

- INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY
  Directors: T.L. BLUNDELL – now G. SCAPIN
  62nd Course: *From structural biology to structural cell biology with the aid of machine learning*
  Directors: A.T. CAPUTO – P. ROVERSI – H. WALDEN
  29 May – 6 June 2026

- INTERNATIONAL SCHOOL ON TREASURES OF ART AND SCIENCE
  Director: L. ZICHICHI
  25th Seminar: *Scuola Normale Superiore*
  Director: L. ZICHICHI
  6 June 2026

- INTERNATIONAL SCHOOL ON FUSION REACTORS TECHNOLOGY
  Director: L. ZICHICHI
  18th Course: *Fundamentals of magnetic confinement fusion design*
  Directors: M. BARBARINO – P. BATISTONI
  7 – 12 June 2026

- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
  Directors: P.F. FERRARI – G. RIZZOLATTI
  18th Workshop: *Neuroethology of nonhuman primates*
  Directors: L. BONINI – P.F. FERRARI
  8 – 12 June 2026

- INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS
  Directors: A. ZICHICHI – A. ZOCCOLI
  62nd Course: *The new frontiers of particle physics*
  Directors: A. BETTINI – A. MASIERO
  14 – 23 June 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  20th Course: *New trends in non-equilibrium complex systems: From brain to climate*
  Directors: C. GUARCELLO – S. MAGAZÙ – B. SPAGNOLO – D. VALENTI
  26 – 29 June 2026

- INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»
  Directors: F. GIANNESSI – now G. BUTTAZZO – M. THÉRA
  82nd Workshop: *Dynamics, deep learning, and control in nonlinear PDE*
  Directors: U. BICCARI – N. DE NITTI
  1 – 4 July 2026

- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
  Directors: P. HÄNGGI – F. MARCHESONI
  29th Course: *Self-organized hyperuniformity in and out of equilibrium*
  Directors: P. HANGGI – Y. LI – R. NI
  1 – 6 July 2026

- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
  Directors: G. BENEDEK – G.G. CHIRICO – S. PICOZZI
  94th Course: *Quantum terahertz nanomaterials and devices: Science, technology and applications*
  Directors: F. CAPASSO – O. MITROFANOV – M. VITIELLO
  5 – 11 July 2026

- INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS
  Directors: G. BENEDEK – G.G. CHIRICO – S. PICOZZI
  95th Workshop: *Epioptics and xenes*
  Directors: A. CRICENTI – A. MOLLE
  6 – 12 July 2026

- INTERNATIONAL SCHOOL OF MATERIALS FOR SUSTAINABLE DEVELOPMENT AND ENERGY
  Director: A. TERRASI
  6th Course: *Innovative materials and architectures for photovoltaics*
  Director: P. DELLI VENERE
  11 – 15 July 2026

- INTERNATIONAL SEMINARS ON PLANETARY EMERGENCIES
  Chairman: S.F. ZICHICHI
  58th Session – Co-Chairmen: C. GALBIATI – S.F. ZICHICHI
  16 – 22 July 2026

- INTERNATIONAL SCHOOL OF PHARMACOLOGY «GIAMPAOLO VELO»
  Directors: M. LINDQUIST – P. MINUZ – U. MORETTI
  96th Workshop: *New advances in immunotherapy: CIMT/NIBIT*
  Directors: V. BRONTE – M. DIKEN – Ö. TÜRECI
  23 – 26 July 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  21st Course: *Emergence of coherence in nonequilibrium and structured environments 2026 - ECO-NOISE-2026*
  Directors: A. CAVALLERI – E. DEMLER – D. DE SANTIS – M.H. MICHAEL – A. RUBIO
  23 – 28 July 2026

- INTERNATIONAL SCHOOL OF BIOLOGICAL MAGNETIC RESONANCE
  Director: J.D. PUGLISI
  22nd Course: *Future of biophysics*
  Directors: J.D. PUGLISI – E. VIANI PUGLISI
  29 July – 5 August 2026

- INTERNATIONAL SCHOOL OF COSMIC RAY ASTROPHYSICS «MAURICE M. SHAPIRO»
  24th Course: *Particles and the cosmos - bridging the infinitesimal and the infinite*
  Directors: J.R. HÖRANDEL – R. SPARVOLI – T.S. STANEV
  29 July – 6 August 2026

- INTERNATIONAL SCHOOL OF MATERIALS FOR SUSTAINABLE DEVELOPMENT AND ENERGY
  Director: A. TERRASI
  7th Course: *Powering sustainability: Emerging materials for energy conversion and storage*
  Directors: H.-N. BARAD – E. MEIRZADEH
  6 – 11 August 2026

- INTERNATIONAL SCHOOL ON TREASURES OF ART AND SCIENCE
  Director: L. ZICHICHI
  26th Seminar
  Director: L. ZICHICHI
  13 – 24 August 2026

- INTERNATIONAL SCHOOL OF MUSICAL SCIENCES
  Director: R. GIULIANI
  7th Course
  13 – 24 August 2026

- INTERNATIONAL SCHOOL ON PHYSICAL COMPUTING
  Directors: A. CALÀ LESINA – W. PERNICE
  2nd Workshop: *Metaphotonics and optical neural networks*
  Directors: A. CALÀ LESINA – W. PERNICE – B. STILLER
  26 – 31 August 2026

- INTERNATIONAL SCHOOL ON ARTIFICIAL INTELLIGENCE TECHNOLOGY AND LAW
  Directors: P. DUGGAL – A. LEHMANN – P.P.M. MENCHETTI
  2nd Course: *AI technology and law*
  Directors: A. LEHMANN – P.P.M. MENCHETTI
  1 – 6 September 2026

- INTERNATIONAL SCHOOL OF NEUROSCIENCES «SIR JOHN ECCLES»
  Directors: P.F. FERRARI – G. RIZZOLATTI
  19th Workshop: *Early neuropsychological development and plasticity: Linking early social experience to mental health outcomes*
  Directors: P.F. FERRARI – H. RAYSON
  2 – 5 September 2026

- INTERNATIONAL SCHOOL ON MASS SPECTROMETRY
  Director: G. GIORGI
  3rd Course *Mass Spectrometry and tandem MS of macromolecules. Fundamentals, advances, and applications*
  Directors: J.A. LOO – L. PAŠA-TOLIĆ
  9 – 14 September 2026

- INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS
  Directors: A. FAESSLER – now M. BUBALLA – C.S. FISCHER
  47th Course: *Neutrinos in cosmology, in astro-, particle- and nuclear physics*
  Directors: C.S. FISCHER – K. VALERIUS
  16 – 22 September 2026

- INTERNATIONAL SCHOOL OF MEDICAL SCIENCES
  Directors: A.E. CARDINALE – I.U. CARRECA
  165 Course
  Director: I.U. CARRECA
  18 – 19 September 2026

- INTERNATIONAL SCHOOL OF ETHOLOGY «DANILO MAINARDI»
  Directors: P. PALANZA – S. PARMIGIANI
  62nd Course: *Ethology, literature and the arts: The science of animal behaviour and its influence on creativeness*
  Directors: S. POLLO – A. VITALE
  23 – 27 September 2026

- INTERNATIONAL SCHOOL OF STATISTICAL PHYSICS
  Directors: P. HÄNGGI – F. MARCHESONI
  30th Course: *Exploring and quantifying rough free energy landscapes*
  Directors: P. TIWARY – G.A. VOTH
  28 September – 3 October 2026

- INTERNATIONAL SCHOOL OF SCIENCE DIPLOMACY
  Directors: D. BURIGANA – V. CODA NUNZIANTE – P. GRISET –S. MANNINO – U. VATTANI
  2nd Course
  Director: V. CODA NUNZIANTE
  4 – 10 October 2026

- INTERNATIONAL SCHOOL OF SCIENTIFIC JOURNALISM AND COMMUNICATION
  Director: P. CAMPANA
  14th Course: *Energy for a sustainable future*
  Directors: P. CAMPANA – P. GIANOTTI
  10 – 14 October 2026

- INTERNATIONAL SCHOOL OF SCIENCE EDUCATION
  Directors: P. LÉNA – A. PASCUCCI
  5th Workshop: *A strategy for Science Education in a changing world*
  Directors: P. McGRATH – C. O'DONNELL – A. PASCUCCI
  15 – 20 October 2026

- INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
  51st Course: *Chromatin landscapes: Linking physical reality with biological destiny*
  Directors: R. BIZZARRI – A. DIASPRO – E. HINDE
  15 – 21 October 2026

- INTERNATIONAL SCHOOL OF IUS COMMUNE
  Directors: M. BELLOMO – O. CONDORELLI – W. DECOCK – K. PENNINGTON
  45th Course: *Status, privilege and (in)equality from the "ius commune" to the French Revolution*
  Directors: O. CONDORELLI – W. DECOCK
  22 – 26 October 2026

- INTERNATIONAL SCHOOL OF COMPLEXITY
  Directors: A. ZICHICHI – Co-Directors: G. BENEDEK – A. RAPISARDA – C. TSALLIS
  21st Course: *Complex networks of cardiovascular and physiological oscillations*
  Directors: L. FAES – G. NOLLO – A. PORTA – S. STRAMAGLIA
  22 – 26 October 2026

- INTERNATIONAL SCHOOL OF PHARMACOLOGY «GIAMPAOLO VELO»
  Directors: M. LINDQUIST – P. MINUZ – U. MORETTI
  97th Course: *Common mechanisms in cardiovascular disease and cancer with a focus on platelet activation and inhibition*
  Directors: P. MINUZ – P. PATRIGNANI – C. PATRONO
  26 – 28 October 2026

- INTERNATIONAL SCHOOL OF COMPLEXITY
  Directors: A. ZICHICHI – Co-Directors: G. BENEDEK – A. RAPISARDA – C. TSALLIS
  22nd Course: *Modeling, analysis, and control of networks with higher-order interactions*
  Directors: S. BOCCALETTI – P. DE LELLIS – V. GAMBUZZA
  27 October – 1 November 2026

- INTERNATIONAL SCHOOL OF NONEQUILIBRIUM PHENOMENA
  Directors: A. LANZARA – M.G. PALMA – B. SPAGNOLO
  22nd Course: *Methods for many-body open quantum systems*
  Directors: A. BIELLA – C. CIUTI
  2 – 7 November 2026

- INTERNATIONAL SCHOOL OF PRECISION MEDICINE AND LABORATORY
  Directors: M. CIACCIO – F. SALVATORE
  4th Course
  Directors: M. CIACCIO – F. SALVATORE
  9 – 11 November 2026

- INTERNATIONAL SCHOOL OF MOLECULAR ONCOLOGY
  Director: F.M. BUONAGURO
  6th Course
  Director
  11 – 14 November 2026

- INTERNATIONAL SCHOOL OF MULTISCALE MATHEMATICAL MODELS FOR MULTI-AGENT SYSTEMS
  Directors: F. BAGARELLO – R.N. MANTEGNA – V. ROMANO
  2nd Course: *Pseudo Hermitian Hamiltonians and Quantum Physics*
  Directors: F. BAGARELLO – F. GARGANO
  15 – 21 November 2026

- INTERNATIONAL SCHOOL OF ATOMIC AND MOLECULAR SPECTROSCOPY
  Directors: B. DI BARTOLO – M. CESARIA
  40th Workshop: *Matter physics and photonics: Interwined fields for exploring fundamentals and applications*
  Director: M. CESARIA
  30 November – 5 December 2026

- INTERNATIONAL SCHOOL OF BRAIN CELLS AND CIRCUITS «CAMILLO GOLGI»
  Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT
  11st Course: *Brain digital twins: A roadmap to clinical adoption*
  Directors: E. D'ANGELO – C. GANDINI WHEELER-KINGSHOTT
  13 – 18 December 2026

More information about the activities of the Ettore Majorana Foundation can be found on the WWW at the following address: https://ettoremajoranafoundation.it