



14th ESGCO Meeting

European Study Group on Cardiovascular Oscillations

Erice, Sicily, Italy

22-26 October 2026

Hosted by the School of Complexity (21st Course)

Complex networks of cardiovascular and physiological oscillations

[Ettore Majorana Foundation and Centre for Scientific Culture](#)

Booklet

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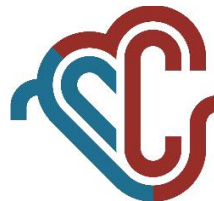
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ESGCO

European Study Group on Cardiovascular Oscillations

**Organizer of the “International School of Complexity – 21st Course”:
“Complex networks of cardiovascular and physiological oscillations”**

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The ESGCO 2026 Workshop is hosted by

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21st Course: *Complex networks of cardiovascular and physiological oscillations*

Directors: L. FAES – G. NOLLO – A. PORTA – S. STRAMAGLIA

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For More Info

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AGENDA AND SCIENTIFIC PROGRAM

THURSDAY, OCTOBER 22, 2026

18:00 Arrival and registration of participants

FRIDAY, OCTOBER 23, 2026

08:20 Opening Ceremony – *Welcome addresses by:*

- **Luca Faes (Conference Chair)**
- **Livan Fratini (Head of Department of Engineering of University of Palermo)**
- **Andrea Rapisarda (Director of the International School of Complexity)**
- **Alberto Porta (ESGCO President)**

08:45 - 09:30 Keynote Speaker 1: **Steffen Leonhardt**, *RWTH Aachen University*

Topic: *Unobtrusive Sensing of Vital Signs*

09:30-10:30 Topical Session 1 - **Minimally invasive assessment of cardiovascular signals**

Chairs: Steffen Leonhardt, Niels Wessel

- *Bilateral Haemodynamic Coupling and Vasomotion Persistence: Complementary Oscillatory Markers of Peripheral Arterial Disease from Nonlinear Bilateral Toe Photoplethysmography Analyses*
John Allen and Gerard Stansby
- *Autoencoder-Based Reconstruction Analysis of Foot PPG Signals under Basal and Warmed-Foot Conditions*
Cosimo Aliani, Irene Bizzarri, Leonardo Bocchi, Sara Corradini, Maria Rosaria Veropalumbo and Matteo Iotti
- *Facial Photoplethysmography Imaging During Head-Up Tilt Testing: A Proof-of-Concept Study*
Stefan Borik, Jan Seleng, Sona Sikynova, Michal Labuda, Jana Cernanova-Krohova, Barbora Czipelova, Nikoleta Mazgutova, Zuzana Turianikova and Michal Javorka
- *Stability Analysis of Electrocardiography (ECG) Signal Quality in an Intelligent Toilet Seat*
Aline Santos Silva, Miguel Velhote Correia and Hugo Plácido da Silva

10:30-11:00 Coffee Break

11:00-12:30 Session 1 - Clinical applications of heart rate variability

Chairs: Pontus Persson, Beata Graff

- *Oxytocin Change Patterns and Maternal–Fetal Autonomic Association Assessed Based on Heart Rate Variability*
Miki Soma, Namareq Widatalla, Yoshiyuki Kasahara, Kiyoe Funamoto, Yoshitaka Kimura, Yasuka Nakamura, Ahsan Habib Khandoker and Toyoko Yoshizawa
- *Automated Detection of LF Drops and HF Counter-Regulation in Cardiorhythmograms: A Step Towards Operator-Independent Risk Stratification*
Niels Wessel, Ludmila Sidorenko, Irina Sidorenko
- *Altered Heart Rate Variability During Sleep in Patients with Sleep-Related Hypermotor Epilepsy*
Parisa Sattar, Giulia Baldazzi, Francesco Sarritzu, Michela Figorilli, Monica Puligheddu and Danilo Pani
- *Optimization of the Timing for Heart Rate Variability Analysis during Sleep in iRBD*
Clara Gino, Laura Adelaide Dalla Vecchia, Sasha D'Ambrosio, Rejko Krueger, Lukas Pavelka, Astrid Blom, Ana Borovecki, Graziella Cappelletti, Céline Galvagnion-Büll, Ronald Melki, Davide Sattin, Mauno Vihinen, Alessandro Pincherle and Beatrice De Maria
- *Towards Understanding Autonomic Dysfunction in Essential Tremor*
Adrián Carrasco-Robledo, Marta González-García, Marcos Sacristán-Moraleda, Verónica Giménez de Béjar, Alejandro Pascual-Valdunciel, Julian Benito-León, Jaime Ibañez and Jesús Lázaro
- *Longitudinal Characterization of Cardiac Autonomic Dysfunction in Long-COVID*
Leandro Lopedote, Beatrice Cairo, Raffaello Furlan, Stefano Rigo, Luca Rinaldi, Alberto Porta, Daniele Loiacono and Franca Barbic

12:30 - 13:00 Young Invited Speaker 1: Whabi El-Bouri, University of Liverpool
Topic: *Cerebrovascular Ageing Models - Towards Digital Twins*

13:00 - 14:30 Lunch break

14:30 - 15:15 Keynote Speaker 2: Georgios D. Mitsis, McGill University
Topic: *Mathematical modelling of cerebral hemodynamics and brain-heart interactions using multimodal functional neuroimaging*

15:15-16:15 Topical Session 2 - Mathematical modeling of cerebrovascular and brain-heart interactions Chairs: Diego Candia-Rivera, Georgios D. Mitsis

- *Cerebral Autoregulation Assessed Through Joint Symbolic Analysis in Surgical Aortic Valve Replacement Patients*
Alberto Porta, Beatrice Cairo, Vlasta Bari, Ilaria Burzo, Miriam Angolani, Beatrice De Maria, Martina Anguissola, Carlo De Vincentiis and Marco Ranucci

- *Extended Granger Causality for Instantaneous Effects (EGCI): Elevated Cortico-Cardiac Coupling in REM Sleep Behaviour Disorder*
Georgios Gkyzis and Dimitris Kugiumtzis
- *Physiologically Inspired Synthetic Computational Model of Autonomic Interpersonal Synchrony*
Vincenzo Catrambone and Antonio Maffei
- *Parametric and Non-parametric Estimates of Autoregulation Index Based on Step Response in Cardiac Surgery*
Beatrice Cairo, Vlasta Bari, Ilaria Burzo, Martina Anguissola, Miriam Angolani, Marco Ranucci, Giacomo Bortolussi and Alberto Porta

16:15-16:30 Entropy Journal presentation

16:30-18:30 Poster session & Coffee break

- P.01:** *Task-Dependent Reconfiguration of Cardiovascular Oscillations During Functional Motor and Cognitive Activities: A Multidomain HRV Analysis*
Sona Al Younis, Herbert F. Jelinek, Rateb Katmah and Kinda Khalaf
- P.02:** *Non-Equilibrium Time Series Synchronization. Integrating Dyadic Interactions and Ensemble Phase Coherence*
Herbert F. Jelinek, Jack C.M. Hughes, Glenn Muschert and Fedor V. Kusmartsev
- P.03:** *Autonomic Complexity Collapse During Orthostatic Challenge in Eating Disorders: A Tone-Entropy Approach*
Nour A. Shurrab, Yawer Hussain Shah, Kinda Khalaf, Mohammed I. Awad, Glenn W. Muschert, Fedor Vasilievich Kusmartsev, Herbert F. Jelinek
- P.04:** *Redistribution of Beat-to-Beat Heart Rate Fluctuation Magnitudes Reveals Age-Related Autonomic Remodeling*
Namareq Widadalla, Sona Al Younis and Ahsan Khandoker
- P.05:** *Changes in P-wave Parameters Before AF Onset: a Comparative Study.*
Maikel Noriega, Alba Martín-Yebra, Javier Marta, Juan Pablo Martínez, Leif Sörnmo and Pablo Laguna
- P.06:** *Toward a Standardized Brain-Heart Interplay Assessment*
Vincenzo Catrambone and Gaetano Valenza
- P.07:** *Graph-based Entropy for Maximum Data Retention in Multivariate Physiological Signals with Artefacts*
Mei-San Maggie Lei and Javier Escudero
- P.08:** *Gender-Specific Effects on Heart Rate Variability Circadianity Induced by Head-Down Tilt Bed Rest*
Sarah Solbiati, Maddalena Lovotti, Francesca Righetti, Yijun Ren, Francesca Ferranti, Serena Pezzilli and Enrico Gianluca Caiani

- P.09:** *Cardiorespiratory Oscillations during Spontaneous Normal, Slow and Rapid Breathing in Healthy Humans: A Pilot Study on Pulse Oximetry as a Potential Surrogate for Non-Invasive Finger Arterial Blood Pressure Measurements*
Maja Elstad, Marian Berge Andersen, Danie Bajalan, Mahira Masud Khan, Maria Skytjoti, Lars Walløe and Ola Didrik Saugstad
- P.10:** *Comparison of Optimized and Signal-Specific Slope Entropy Parameterization for Ventricular Tachycardia Complexity Analysis*
 Marco Orrù, Luca Solinas, Giulia Baldazzi, Graziana Viola and Danilo Pani
- P.11:** *Cardiac Autonomic Control in Type 2 Diabetes at Different Stages of Cardiovascular Autonomic Neuropathy*
 Andréia Machado Santos, Gabriela Aguiar Mesquita Galdino, Luiz Eduardo Vírgilio Silva, Étore De Favari Signini, Vlasta Bari, Alberto Porta, Beatrice Cairo and Aparecida Maria Catai
- P.12:** *Quantifying the Integrated Information of Physiological Networks in Postural-Related Syncope*
Irene Franzone, Yuri Antonacci, Roberta Saputo and Luca Faes
- P.13:** *Optimizing BiLSTM-Based Classification of Animal and Human Arterial Blood Pressure Waveforms for Clinical Use*
 Diletta Guberti, Marta Carrara and Manuela Ferrario
- P.14:** *The role of time-variability on the cardiorespiratory phase coherence*
Irena Sazdova Danova and Tomislav Stankovski
- P.15:** *Asymmetries in RR intervals during head-up tilt in patients prone to syncope*
Dirk Cysarz and Friedrich Edelhäuser
- P.16:** *Autonomic Cardiorespiratory Function in Post-COVID Patients Suffering from Fatigue*
Andy Schumann, Katrin Rieger, Teresa Kreuder, Marie Schwanitz, Konrad Klemba and Karl-Jürgen Bär
- P.17:** *Pulse Rate Variability Estimation in a Concurrent EEG-fMRI Setup*
Dario Milea, Vincenzo Catrambone, Rémi Dagenais, Mohammad Torabi, Mary Miedema, Emad Askarinejad Moghadam, Siyu Long, Georgios Mitsis and Gaetano Valenza
- P.18:** *Multilevel Information-Theoretic Characterization of Cardiovascular Variability Under Autonomic Stress*
Marta Iovino, Riccardo Pernice, Michal Javorka and Luca Faes
- P.19:** *Estimating the Condition of Vehicle Occupants during Driving Using Biometric Signals*
 Yoshika Nobuhiro, Angelo Savio, Domenico Agnusdei, Martina Mori, Shigeyuki Kojima and Yumi Ogura
- P.20:** *Diminishing and Accomodating Effects of Classical Music on Pulse-Respiratory Quotient*
Zoran Matic, Edin Suljovrujić, Aleksandar Kalauzi

P.21: *24-Hour Heart Period Variability Analysis During Antarctic Overwintering at Concordia Station*

Beatrice Cairo, Enrico De Martino, Sarah Gaier, Charles Quesada, Leandro Lopedote, Velia Padulo, Miriam Banetti, Miriam Candela, Vlasta Bari, Alberto Porta, Pierluigi Cocco and Franca Barbic

P.22: *Quantifying Physiological Dyadic Coupling in Psychotherapy using Windowed Multidimensional Recurrence Quantification Analysis*

Stefanie Suttkus, Yubraj Gupta, Karl-Jürgen Bär and Andy Schumann

P.23: *A Multiscale Progression Index for Temporal Lobe Epilepsy Phenotyping in Rat*

Antonio Cangelosi, Valentina Di Liberto, Giuseppe Giglia, Nicolò Ricciardi, Giulia Urone, Miriana Scordino, Fabrizio Di Giovanni, Giulio Musotto and Giuditta Gambino

P.24: *Effects of Time Series Extraction and Surrogate Validation on Brain–Heart Coupling*

Valeria Rosalia Vergara, Chiara Barà, Andrea Zaccaro, Francesca Ferri and Yuri Antonacci

P.25: *Causal Spectral Decomposition of High-Order Physiological Interactions in Postural-Related Syncope*

Longxiang Fu, Irene Franzone, Yuri Antonacci, Ludovico Minati and Luca Faes

P.26: *Investigation of Brain-Heart Coupling Using Wavelets and Granger Causality*

Omkar Kulkarni and Dimitris Kugiumtzis

P.27: *Biosignal-Assisted Evaluation Insights of a Novel Burnout Prevention Intervention for Healthcare Professionals: Extending the LAGOM Feasibility*

Martin Bogdanski, Anna Koch, Marleen Schröter, Julia Berschick, Melanie Steinmetz, Julia Schiele, Sandra Jankow, Steffen Schulz, Andreas Voß, Wiebke Stritter, Christian Kessler and Georg Seifert

P.28: *Multi-District Phase Coupling Dynamics During Outdoor Exercise: A Ski Mountaineering Study*

Damiano Fruet, Stefano Cimignolo and Giandomenico Nollo

18:30-19:00 ESGCO Board Meeting

SATURDAY, OCTOBER 24, 2026

08:45 - 09:30 Keynote Speaker 3: Fernando E. Rosas, *University of Sussex*
Topic: *High-order interdependencies in physiological systems: what are they and why they matter*

09:30-10:30 Topical Session 3 - Multivariate and high-order analysis of cardiovascular oscillations Chairs: Dimitris Kugiumtzis, Fernando E. Rosas

- *Quantifying Mechanism-Driven Synergy in Cardiovascular Networks under Orthostatic Stress*
Yuri Antonacci, Chiara Barà, Luca Faes and Sebastiano Stramaglia
- *Causal Emergence in Physiological Systems: a Parametric Autoregressive Approach*
Laura Sparacino, Irene Franzone, Yuri Antonacci and Luca Faes
- *High-Order Cardiovascular-Cerebrovascular Interactions During Orthostatic Stress*
Ivan Lazic, Riccardo Pernice, Niksa Jakovljevic and Luca Faes
- *Time-Frequency Analysis of Partial Information Rate Decomposition in Physiological Networks*
Yuri Antonacci, Chiara Barà, Riccardo Pernice and Luca Faes

10:30-11:00 Coffee Break

11:00-12:30 Session 2 - Blood Pressure and Physiological Oscillations

Chairs: Maja Elstad, Dirk Cysarz

- *Renal Perfusion Oscillations, and Hypoxia: When Episodic Hypoperfusion is Worse Than It Looks*
Pontus B. Persson and Michael Fähring
- *Oscillatory Blood Pressure Modulation During Cardiac-Locomotor Coupling*
Aurora Rosato and Seraina Anne Dual
- *Attractor Reconstruction of Arterial Pressure Waveforms for Cardiovascular Monitoring in Sepsis*
Marta Carrara, Diletta Guberti and Manuela Ferrario
- *Integrated Information of Cardio-Muscular Networks in Exercise*
Riccardo Pernice, Irene Franzone, Yuri Antonacci, Plamen Ch. Ivanov, Sergi Garcia-Retortillo and Luca Faes
- *Determinants and Estimation of Mean Arterial Blood Pressure*
Michal Javorka, Jana Čerňanová Krohová, Barbora Czipelová and Zuzana Turianiková

- *Listening Effort Assessment in Hearing Loss by Sympathovagal Autonomic Indices*
Gaia Vettori, Edoardo Maria Polo, Davide Simeone, Alessia Paglialonga and Riccardo Barbieri

12:30 - 13:00 Young Invited Speaker 2: Vincenzo Catrambone, *University of Pisa*
Topic: *A Meta-Methodology Toward a Standardization of Functional Brain–Heart Interplay Assessment*

13:00-14:00 Session 3 - Cardiovascular and cardiorespiratory interactions

Chairs: Paolo Castiglioni, Raquel Bailon

- *The Effect of Antidepressants on the Cardiorespiratory Autonomic Network in Depression*
Steffen Schulz, Steven Ngandeu Schepanski, Andy Schumann, Martin Bogdanski, Karl-Jürgen Bär, Andreas Voss and Georg Seifert
- *Assessing Time-Domain and Spectral Granger Causality in Cardiovascular Oscillations via Parametric Models with Instantaneous Effects*
Gorana Mijatovic, Michal Javorka and Luca Faes
- *Characterizing Multivariate Mutual Dependencies in Cardiovascular Networks*
Salvatore Spaccaforno, Yuri Antonacci, Riccardo Pernice and Luca Faes
- *Ordinal-pattern analysis reveals adiposity-related alterations in cardiorespiratory dynamics*
Beata Graff, Paweł Pilarczyk, Maja Elstad, Krzysztof Narkiewicz, José M. Amigó and Grzegorz Graff

14:00-15:00 Lunch

16:00-19:00 Social Program

20:00-23:00 Social Dinner

SUNDAY, OCTOBER 25, 2026

08:45 - 09:30 Keynote Speaker 4: Flavia Ravelli, University of Trento
Topic: *Bridging the Gaps: Connecting Tissue Structure, Integrated Imaging, and Computer Simulation for Arrhythmia Insight*

09:30-10:30 Topical Session 4 - Emerging Analytical Tools in Cardiac Arrhythmias

Chairs: Pablo Laguna, Flavia Ravelli

- *Heart Rate-Dependent T-wave Alternans Predicts Sudden Cardiac Death in Chagas Cardiomyopathy*
João Paulo Madeiro, Alba Martín-Yebra, Pablo Laguna and Juan Pablo Martínez
- *Improved Graph-Based Signal Extraction in Atrial Fibrillation Multielectrode Arrays*
Théotim Barbier and Vicente Zarzoso
- *Investigation of P2R in Brugada Syndrome: A Magnetic Field Analysis*
Martina Nicoletti, Valerio De Sio, Alessandro Loppini, Anna Crispino, Christian Cherubini, Alessio Gizzi, Letizia Chiodo and Simonetta Filippi
- *Surface Fibrillatory Wave Analysis in Persistent Atrial Fibrillation through Poincaré Descriptors*
Pilar Escribano Cano, Alvaro Huerta Herraiz, Michela Masè, Flavia Ravelli, Jose Joaquin Rieta and Raul Alcaraz Martínez

10:30-11:00 Coffee Break

11:00-12:30 Session 4 - Autonomic Control in Exercise and Physiology

Chairs: Michal Javorka, Ahsan Habib Khandoker

- *Heart Rate Variability from Diastolic Depolarization Rate Series to Assess Recovery after Exercise*
Paolo Castiglioni, Daniele Ronchetti, Damiano Formenti, Andrea Faini and Giampiero Merati
- *Pulse Rate Variability and Exercise: a Validation of Garmin Smartwatches*
Daniele Ronchetti, Damiano Formenti, Giampiero Merati, Andrea Faini, and Paolo Castiglioni
- *Effects of High Intensity Interval Training on Nonlinear Cardiac Autonomic Dynamics in Chronic Heart Failure: A Randomized Controlled Trial*
Ádria Aryelle Ferreira, Antônio Marconi Leandro da Silva, Joice de Souza Batista, Gerlene Grudka Lira, Raphael Martins de Abreu and Victor Ribeiro Neves
- *Workload-Dependent Nonlinear Heartbeat Dynamics During Graded Exercise in Advanced Heart Failure*
Salvatore Castelbuono, Diego Bellavia, Yuri Antonacci, Riccardo Pernice, Eluisa La Franca and Luca Faes

- *Autonomic Nervous System Response to Music-Evoked Emotions Based on Cardiorespiratory Signals in Women*
Alexia Suárez-Pérez, Diego Cajal, Pedro Álvarez and Raquel Bailón
- *Linear Multiscale Entropy of Cardiac Oscillations during Acute High Altitude Exposure*
Michela Masè, Giandomenico Nollo, Marika Falla, Michiel Jan van Veelen, Anna Vögele and Giacomo Strapazzon

12:30 - 13:00 Young Invited Speaker 3: Raphael Martins de Abreu, LUNEX University
Topic: *Cardiorespiratory Coupling: Clinical Applications in Sports and Rehabilitation Medicine*

13:00-14:30 Lunch

14:30-16:00 Session Challenge - ESGCO 2026 Challenge: “Characterization of complex cardiovascular and cerebrovascular interactions in postural syncope”

Chairs: Vlasta Bari, Riccardo Pernice

- *Introduction to the challenge data by session chairs*
- *Head-Up Tilt-Induced Reorganization of Nonlinear Coupling in Postural-Related Syncope*
Helder Pinto, Yuri Antonacci, Luca Faes and Ana Paula Rocha
- *Directed Cross-Bispectral Analysis of Cardiovascular–Cerebrovascular Interactions During Orthostatic Stress*
Martina Bianco, Andrea Scarciglia, Claudio Bonanno and Gaetano Valenza
- *Modeling the Cerebrovascular Pressure-to-Flow Relationship in Subjects Prone to Postural Syncope*
Ilaria Burzo, Beatrice Cairo, Vlasta Bari and Alberto Porta
- *Hidden Drivers in the Cardio-Respiratory System*
Marcell Stippinger, Paweł Pilarczyk, Grzegorz Graff, Beata Graff and Zoltán Somogyvári
- *Pulse–respiratory quotient modulation in postural challenges: a healthy vs. syncope study*
Zoran Matić, Edin Suljovrujić, Aleksandar Kalauzi
- *Assessment of Physiological Causal Dynamics During Orthostatic Stress in Syncope-Prone Subjects Using Transfer Entropy*
Stefano Cimignolo, Michela Masè, Riccardo Pernice, Chiara Barà, Giandomenico Nollo and Luca Faes
- *Ranking of binary patterns of RR intervals during head-up tilt in patients prone to syncope*
Dirk Cysarz and Friedrich Edelhäuser
- *Disentangling Predictive Information in Syncope Patients and Healthy Controls: Application to Cardiovascular and Cerebrovascular Variability*
Roberta Saputo, Riccardo Pernice and Luca Faes

16:00-17:00 Session 5 - Applications of Brain-body and cerebrovascular interactions

Chairs: Riccardo Barbieri, Gorana Mijatovic

- *Motor imagery and brain-heart interplay after stroke*
Diego Candia-Rivera and Mario Chavez
- *Evaluating the Link between Cerebral Autoregulation and Mean Arterial Pressure Level in the Different Phases of Cardiac Surgery*
Vlasta Bari, Beatrice Cairo, Ilaria Burzo, Martina Anguissola, Miriam Angolani, Marco Ranucci, Giacomo Bortolussi and Alberto Porta
- *Structural Cerebrovascular Correlates of Heartbeat Complexity: A Preliminary TOF-Magnetic Resonance Angiography Study*
Roberto Francischello and Gaetano Valenza
- *Regulatory Brain-Body Networks Underlying Different Levels of Robot-Assisted Movements*
Chiara Barà, Valeria Rosalia Vergara, Yuri Antonacci, Marta Mondellini, Matteo Lavit Nicora, Giovanna Rizzo, Luca Faes and Alfonso Mastropietro

17:00-17:30 Coffee break

17:30-18:30 Session 6 - Cardiac and Autonomic Modelling

Chairs: Gaetano Valenza, Steffen Schulz

- *Predicting Vasovagal Syncope Through Self-Organized Criticality: Identification of Dragon-Kings in Heart Rate Variability*
Jacques-Olivier Fortrat
- *Respiratory Heart Rate Variability May Improve Cardiac Power Efficiency*
Philip Wijesinghe, Andrew Lefevre, Vishal Jain, Joshua R. Border and Alain Nogaret
- *From Parsimonious Baselines to Self-Supervised Representations: A Complexity Ladder for High Dimensional Magnetocardiography*
Niels Wessel
- *Safety-Constrained Reinforcement Learning for Fentanyl Dosing in the ICU: A Sensitivity Analysis of Cardiovascular Safety Boundaries*
Cristian Drudi and Riccardo Barbieri

MONDAY, OCTOBER 26, 2026

08:45 Awards Ceremony

09:30 Closing Remarks

10:30 Organized Departure

(Onwards: Optional social activity)

VENUE

The event is hosted by *the School of Complexity (21st Course)*: “**Complex networks of cardiovascular and physiological oscillations**” at the

[*Ettore Majorana Foundation and Centre for Scientific Culture*](#)

The Ettore Majorana Foundation and Centre for Scientific Culture ETS (founded in 1926) is named after an extraordinary Italian physicist, born in Sicily in 1906. The Centre is located in the ancient pre-medieval town of Erice, where three restored monasteries provide a suitable environment for high intellectual engagement.

It is located in Erice because physicist Antonino Zichichi, founder of the centre, chose the ancient village for its ability to foster intellectual engagement and reflection, using restored monasteries as venues for international scientific conferences. Thanks to its unique atmosphere, Erice has become a centre for dialogue on science and peace, attracting scholars from all over the world for over sixty years.

ADDRESS

Ettore Majorana Centre

Via Guarnotta, 26

I-91016 ERICE, Italy

