PROGRAMME AND LECTURERS

Quantum First Detection Problem
- E. BARKAI, Bar-Ilan University, Ramat-Gan, IL

Majorana States in Hybrid 2D Josephson Junctions
- A. BRAGGIO, NEST-Scuola Normale Superiore Pisa, Pisa, IT

Quantum Measurement Cooling
- M. CAMPISI, University of Florence, Firenze, IT

Uhlmann Curvature in Dissipative Phase Transitions
- A. CAROLLO, University of Palermo, Palermo, IT

Collision Models in Quantum Thermodynamics
- F. CICCARELLO, University of Palermo, Palermo, IT

Probing Ultrastong Coupling by Population Transfer
- G. FALCI, University of Catania, Catania, IT

Dynamical Transitions, Universality, and Chaos in Prethermal States
- A. GAMBASSI, SISSA, Trieste, IT

Soliton-based Coherent Caloritronics in Long Josephson Junctions
- C. GUARCELLO, NEST-Scuola Normale Superiore Pisa, Pisa, IT

Coupled transport phenomena in chains of oscillators
- S. IUBINI, University of Padova, Padova, IT

Speed Limits in Classical and Quantum Lattice Models
- M. KASTNER, National Institute for Theoretical Physics, Stellenbosch, ZA

Heat Transport in Low Dimensions
- R. LIVI, University of Florence, Firenze, IT

The Driven Spin-Boson Dynamics
- L. MAGAZZU, Regensburg University, Regensburg, DE

The Power Spectrum for Fractional Brownian Motion
- V. MARINARI, Sapienza Università di Roma, Roma, IT

Orthogonality Catastrophe from dissipative impurities?
- J. MARTINO, Harvard University, Cambridge, MA, US

Anomalous Diffusion in Membranes and Cytoplasm of Biological Cells
- R. METZLER, University of Potsdam, Potsdam, DE

Irreversible Entropy Production in Nonequilibrium Quantum Processes
- M. PATERNOSTRO, Queen’s University, Belfast, UK

1/f Noise in Short Ballistic Graphene Josephson Junctions
- E. PALADINO, University of Catania, Catania, IT

Superconducting Qubits as Quantum Refrigerators and Heat Switches
- F. PEROLA, Aalto University, Aalto, FI

One Dimensional Phase Ordering with Long-Range Interactions
- P. POLITI, Institute for Complex Systems-CNRS, Firenze, IT

Q-stat Thermodynamics: A New Perspective on Nonequilibrium Phenomena
- F. RITORT, University of Barcelona, Barcelona, ES

How Environmental Fluctuations affect the Population Behavior?
- M. RUBI, University of Barcelona, Barcelona, ES

Statistical Physics of the Kramers Model
- S. RUFFO, SISSA, Trieste, IT

Modelling Diffusive Memristors
- S. SAVELIEV, Loughborough University, Loughborough, UK

Stochastic Thermodynamics: From Principles to the Cost of Precision
- U. SEIFERT, Universität Stuttgart, Stuttgart, DE

Quantum Many-Body Kapitza Phases of Periodically Driven Spin Systems
- A. SILVA, SISSA, Trieste, IT

Quantum Quench Dynamics in Topological Systems
- S. VISHVESHWARA, University of Illinois at Urbana-Champaign, IL, US

POETIC TOUCH

According to legend, Eriaca, son of Venus and Neptune, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The founder of modern history — i.e. the recording of events in a methodical and chronological sequence as they really happened without reference to mythical causes — the great Thucydides (~500 B.C.), writing about events connected with the conquest of Troy (~1183 B.C.) said: "After the fall of Troy some Trojans on their escape from the Achaei arrived in Sicily by boat and as they settled near the border with the Sicanians all together they were named Elymi; their town was Segesta and Erice." This inspired Virgil to describe the arrival of the Trojan royal family in Erice and the burial of Anchise, by his son Enea, on the coast below Erice. Homer (~1000 B.C.), Theocritus (~300 B.C.), and other ancient poets have celebrated this magnificent spot in Sicily in their poems. During seven centuries (XIII-XIX) the town of Erice was under the leadership of a local oligarchy, whose wisdom assured a long period of cultural development and economic prosperity which in turn gave rise to the many churches, monasteries and private palaces which you see today. In Erice you can admire the Castle of Venus, the Cyclopean Walls (~800 B.C.) and the Gothic Cathedral (~1300 A.D.). Erice is at present a mixture of ancient and medieval architecture. Other masterpieces of ancient civilization are to be found in the neighbourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Ancient Islands — theatre of the decisive naval battle of the first Panamic War (264-241 B.C.) — suggestive neolithic and paleolithic vestiges are still visible: the grottoes of Favignana, the carvings and mounds of Levanzo.

The town has been a substantial settlement for more than 3000 years, but its history as a town can be traced back only a few centuries. The Poletto, a notable family of the town, has given it a large city, and its rich history continues today.

More information about the other activities of the "Ettore Majorana" Foundation and Centre for Scientific Culture can be found on the WWW at the following address: http://www.esem.infn.it