



«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



# INTERNATIONAL SCHOOL OF SOLID STATE PHYSICS

## 74<sup>th</sup> Workshop: *EPIOPTICS AND SILICENE*

ERICE-SICILY: 14 – 20 JULY 2018

Sponsored by the: • Italian Ministry of Education, University and Scientific Research • Sicilian Regional Government

### PROGRAMME AND LECTURERS

*Optics – Nanospectroscopy*  
*2D Materials*  
*Magnetism*  
*Fast Processes*  
*Biosamples*  
*Large Infrastructures*

- D. ASPNES, North Carolina State University, Raleigh, NC, US
- H. BRUNE, EPFL, Lausanne, CH
- C. COBET, Johannes Kepler University Linz, Linz, AT
- A. CRICENTI, ISM-CNR, Rome, IT
- L. DUÒ, Politecnico di Milan, IT
- S. EISEBITT, Max Born Institute, Berlin, DE
- N. ESSER, ISAS, Berlin, DE

- C. FAUGERAS, Laboratoire National des Champs Magnétiques Intenses – CNRS – Grenoble, FR
- T.F. HEINZ, Stanford University, Stanford, CA, US
- T. MADEIRA, HZDR, Dresden, DE
- B.S. MENDOZA, CIO, León, MX
- R. OSSIKOVSKI, Ecole Polytechnique, Palaiseau, FR
- O. PULCI, Rome Tor Vergata University, Rome, IT
- T. RASING, Radboud Universiteit Nijmegen, Nijmegen, NL
- N. TOLK, Vanderbilt University, Nashville, TN, US
- P. VOGT, Technische Universität Chemnitz, Chemnitz, DE
- U. WURSTBAUER, Technical University of Munich, Munich, DE
- D. ZAHN, Technische Universität Chemnitz, Chemnitz, DE

### PURPOSE OF THE WORKSHOP

The Workshop will bring together researchers from universities and research institutes who work in the fields of (semiconductor) surface science, epitaxial growth, materials deposition and optical diagnostics relevant to (semiconductor) materials and structures of interest for present and anticipated (spin) electronic devices. The Workshop is aimed at assessing the capabilities of state-of-the-art optical techniques in elucidating the fundamental electronic and structural properties of semiconductor and metal surfaces, interfaces, thin layers, and layer structures, and assessing the usefulness of these techniques for optimization of high quality multilayer samples through feedback control during materials growth and processing. Materials of particular interest are Silicene, Collective Excitations in Advanced Nanostructures semiconductor-metal interfaces, semiconductor and magnetic multilayers and III-V compound semiconductors.

### APPLICATIONS

Persons wishing to attend this Workshop should send a letter to the co-Director of the Workshop:

Professor Antonio CRICENTI  
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Tel +39 335 7270365 – e-mail: [antonio.cricenti@cnr.it](mailto:antonio.cricenti@cnr.it)

### PLEASE NOTE

Participants must arrive in Erice on July 14, no later than 7 p.m.

### POETIC TOUCH

According to legend, Erice, 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 methodic 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 towns were 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.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others 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 Aegadian Islands — theatre of the decisive naval battle of the first Punic War (264-241 B.C.) — suggestive neolithic and paleolithic vestiges are still visible: the grottoes of Favignana, the carvings and murals of Levanzo.

Splendid beaches are to be found at San Vito Lo Capo, Scopello, and Cornino, and a wild and rocky coast around Monte Cofano: all at less than one hour's drive from Erice.

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.ccsen.infn.it>