

---

**AUTUMN SCHOOL**

---

**October 1 - 12, 2018**

**IIASS - Vietri sul Mare (Salerno)- Italy**

**XXII Training Course in the Physics  
of Strongly Correlated Systems**

**TOPICS**

*Numerical simulations of topological quantum transport*

*From Majorana bound states to topological quantum computation*

*Random-matrix theory of Majorana fermions and topological superconductors*

*Probing experimentally the Andreev spectrum in topological insulator based Josephson junctions*

*Weyl and topological nodal line semimetals*

**LECTURERS**

---

**Anton Akhmerov** (*Delft University of Technology, Delft, Netherlands*)

**Carlo Beenakker** (*Leiden Institute of Physics, Leiden University, Leiden, Netherlands*)

**Hélène Bouchiat** (*Laboratoire de Physique des Solides, Université Paris Sud, Orsay, France*)

**Felix von Oppen** (*Department of Physics, Freie Universität Berlin, Berlin, Germany*)

**Carmine Ortix** (*Institute for Theoretical Physics, Utrecht, The Netherlands*)

---

**SPONSORS**

*Università degli Studi di Salerno*

*Dipartimento di Fisica "E. R. Caianiello"*

*European Physical Society*

---

**DIRECTOR OF THE COURSE**

**Prof. Ferdinando Mancini**

**COORDINATOR OF THE COURSE**

**Prof. Roberta Citro**

Detailed information and application form at the website:

<http://www.iassvietri.it/home-xxii-t-c.html>

