

INTERNATIONAL INSTITUTE  
FOR ADVANCED  
SCIENTIFIC STUDIES



ISTITUTO INTERNAZIONALE  
PER GLI ALTI  
STUDI SCIENTIFICI

E. R. Caianiello

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## SUMMER SCHOOL

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October 5 - 16, 2015

IIASS - Vietri sul Mare (Salerno) - Italy

# XIX Training Course in the Physics of Strongly Correlated Systems

## TOPICS

*Fe based Superconductors: Materials, phase diagrams, and spectroscopy*

*Modeling many-body physics in Fe-superconductors and other multi orbital materials with the Slave-Spin mean-field: Mott and Hund's physics*

*Cooper-pairing, magnetic frustration, and spin fluctuations in iron based superconductors*

*Nematic order and fluctuations in iron based superconductors*

## LECTURERS

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**Bernd Büchner** (*Institute for Solid State Research, Germany*)

**Luca de' Medici** (*European Synchrotron Radiation Facility, France*)

**Massimo Capone** (*SISSA, Italy*)

**Ilya Eremin** (*Ruhr-Universität Bochum, Germany*)

**Jörg Schmalian** (*Karlsruhe Institut für Technologie, Germany*)

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## SPONSORS

*Università degli Studi di Salerno  
Dipartimento di Fisica "E.R.Caianiello"  
European Physical Society*

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### DIRECTOR OF THE COURSE

Prof. Ferdinando Mancini

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### COORDINATOR OF THE COURSE

Prof. Roberta Citro

Detailed information and application form at the web site:

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

