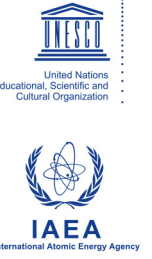




The Abdus Salam  
**International Centre  
for Theoretical Physics**  
www.ictp.it



## *Joint ICTP-IAEA COLLEGE ON PLASMA PHYSICS*

*7 - 18 November 2016  
(Miramare - Trieste, Italy)*

### **BRIEF DESCRIPTION:**

Since much of the known universe is in plasma state, the study of the plasma state is one of the imperatives in Physics pedagogy and research. The primary objective of this College is advanced pedagogical training for students and researchers from the developing countries. Student and researcher participation from "north countries" is also encouraged. The College program is designed: 1) to teach and stimulate the participants to develop an advanced understanding and perspective of elementary and basic ideas on plasma physics, and 2) to familiarize and train students and researchers in recent developments and advances in experiments, design, theory, modeling, and numerical computation so that their research and dissemination abilities are honed.

### **TOPICS:**

- Elementary as well as advanced treatment of fundamental processes in plasma physics: Plasma confinement, Collective phenomena, Gyrokinetics, instabilities, Coherent nonlinear phenomena, self- organization, plasma turbulence, Turbulent transport, Relativistic and Quantum Plasmas.
- Applications to Magnetic Fusion (theory, experiments, design, and simulations), laser generated plasmas, astrophysical and cosmic plasmas (solar, planetary magnetospheres, jets etc.), and exotic plasmas (relativistic-quantum, quantum-relativistic). Fusion applications will be particularly emphasized.
- A poster session to highlight participant research will be organized.

**GRANTS:** *A limited number of grants are available to support the travel and living expenses of selected participants, with priority given to participants working in a developing country and who are at the early stages of their career.*

**How to apply:** the online form can be accessed at:  
<http://indico.ictp.it/event/7642/>

### **COLLEGE SECRETARIAT:**

**Joint ICTP-IAEA  
College on Advanced Plasma Physics [smr2860]  
Elizabeth Brancaccio (Ms)**

the Abdus Salam International Centre for Theoretical Physics  
Strada Costiera 11, 34151 Trieste, Italy

**e-mail:** [smr2860@ictp.it](mailto:smr2860@ictp.it)

**fax:** +39-040-224163

May 2016

### **DIRECTORS:**

**Swadesh MAHAJAN**  
Institute for Fusion Studies,  
University of Texas at Austin, USA

**Zensho YOSHIDA**  
University of Tokyo, Japan

**Richard KAMENDJE**  
International Atomic Energy Agency  
Vienna, Austria

**Daniel O. GOMEZ**  
Instituto de Astronomia y Fisica del Espacio,  
Buenos Aires, Argentina

### **Local Organizer**

**Joseph NIEMELA**  
ICTP, Trieste, Italy

### **Scientific advisory committee**

L. Chen (US/China)

S. Cowley (UK)

R. Galvao (Brazil)

J. Herrera (Mexico)

M. Kikuchi (Japan)

V. Krishan (India)

J. Li (China)

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S. Prager (US)

R. Dewar (Australia)

H. Saleem (Pakistan)

A. Sen (India)

Avinash Khare (India)

F. Zonca (Italy)

### **DEADLINE**

**14 August 2016**

