



**8 - 18 JUNE 2010**

**ADVANCED LECTURES IN QUANTUM  
OPTICS AND ITS MESOSCOPIC  
APPLICATIONS**

**Foundations and applications of Quantum Optics**

- Nonclassical Properties of Light and Atom-Light Interactions
- Cavity QED
- Quantum Optics in Waveguides
- Super-resolution
- Opto-mechanics
- Bose Condensates

by

**Girish Saran Agarwal**  
Oklahoma State University, USA

**Quantum Entanglement: New Frontier for Precision Measurements**

- Quantum Interferometry with Entangled Photons
- Quantum Magnetometry
- Heisenberg - Limited Measurements

by

**Aziz Kolkıran**  
Gediz University, Turkey

**Selective Topics in Applications of Quantum Optics**

by

**M. Ali Can**  
UEKAE-TÜBİTAK, Turkey

**Organized by Aziz Kolkıran (GEDİZ UNI.) and M. Ali Can (UEKAE-TÜBİTAK)**

**IARS**

Uluslararası İleri Fizik Araştırma Okulu  
International Advanced Research School in Physics

**Date:** 8-18 June 2010, **Program:** To be announced later  
**Place:** Institute of Theoretical and Applied Physics (ITAP), Kaygıseki Mevkii, Turunc/Marmaris Turkey

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**Deadline for applications:** 15 May 2010

**website:** <http://itap-tthv.org/iars/>

**Online applications:** Please follow the link "Application Forms" on the website.