

# CALL for PAPERS

## The 4<sup>th</sup> International Conference on Modern Trends In Physics Research

# MTPR-010

## 12-16 December 2010

Physics Dept., Faculty of Science  
Cairo University

## Abstract Deadline 12 November 2010

[www.eun.eg/MTPR-010.htm](http://www.eun.eg/MTPR-010.htm)

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Prof. Nuclear & Laser Physics, Cairo University

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### TOPIC CHAIRS

#### Atomic & Molecular Physics

**Tharwat El Sherbiny, Cairo University**

Laureate of Highest Merit State Award for Basic Science

- **Astrophysics**

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- **Chemical Physics**

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- **Condensed Matter Physics**

**Mohamed Amin Soliman, Cairo University**

- **High Energy Physics**

**Tarek Hussein, Cairo University**

- **Nanotechnology**

**Mostafa El Sayed, Georgia Inst. Of Tech., USA**

Laureate of the 2007 US Medal of Science

- **Nuclear & Particle Physics**

**M. Nassef Comsan, Atomic Energy Auth, Egypt**

- **Plasma physics**

**Pierre Jeagley, Orsay University, FRANCE**

### INVITED SPEAKERS

**A. Douhal, Castilla La Mancha Univ., SPAIN**

**Ahmed Azzawi, Nuc. Energy Centre, ARGENTINA**

**Annie Klisnick, Paris-Sud University, FRANCE**

**Andreas Becker, Max-Planck Inst., GERMANY**

**Anthony J. Leggett, Illinois Univ., USA**

**A. Ya Faenov, RAS, Moscow Univ., RUSSIA**

**Ayub Faridi, Punjab Univ., PAKISTAN**

**Bahaa Saleh, Boston Univ., USA**

**Catherine Brechignac, CNRS, FRANCE**

**Chang Hee Nam, KAIST, SOUTH KOREA**

**David Ros, LASERIX, FRANCE**

**D. Weaire, Trinity College Dublin, IRLAND**

**Enam Chowdhury, Ohio State Univ., USA**

**Fazal-e-Aleem, CHEP, Punjab Univ., PAKISTAN**

**Feras Afaneh, Hashemite Univ., JORDAN**

**Gilles Renaud, CEA, FRANCE**

**Hani El Sayed, Commonwealth Univ., USA**

**Haris Rashid, CHEP, Punjab Univ., PAKISTAN**

**Howard Taylor, South California Univ., USA**

**Jai Pal Mittal, India Academy of Science, INDIA**

**Jay Pasachof, John Hopkins Observatory, USA**

**John Collier, Appelton Lab., UK**

**Johnngmin Lee, APRI, QBF, SOUTH KOREA**

**Kenneth Ledingham, Strathclyde University, UK**

**Li Li, Tsinghua University, CHINA**

**Majed Chergui, Lossain Univ., SWITZERLAND**

**Martin Richardson, Central Florida Univ., USA**

**Michele Ledduc, ENS, FRANCE**

**Mike Downer, Texas Austin Univ., USA**

**Mostafa El-Sayed, Atlanta Inst. of Tech., USA**

**Munawar Iqbal, Punjab Univ., PAKISTAN**

**Nasr Hafez, APRI, QBF, SOUTH KOREA**

**Pierre Jeagley, Orsay Univ., FRANCE**

**P. Loukakos, IESL, FORTH, GREECE**

**Ping Xue, Tsinghua Univ., CHINA**

**Reinhold Schuch, Stockholm Univ., SWEDEN**

**Samy El-Shall, Virginia Commonwealth Univ., USA**

**Sea Liang Chin, Laval Univ., CANADA**

**Sultana Nahar, Ohio State Univ., USA**

**Thomas Kuehl, GSI, GERMANY**

**Todd Ditmire, Austin Texas Univ., USA**

Yasunori Yamazaki, Tokyo Univ., JAPAN  
Yong-Ho Cha, KAERI, SOUTH KOREA

## FOREWORD

The MTPR-010 will be held on 12 Dec. till 16 Dec. 2010, at Cairo Univ. We shall be honored if you accept our invitation to participate and enrich the meeting with your latest research results. Your colleagues and students are also welcomed to this important meeting.

The GOAL & MOTIVATION of the meeting could be summarized as:

Innovate knowledge about recent breakthroughs in PHYSICS fundamentals and technological aspects

Develop greater understanding of physics research and its applications to promote new research fields

Elaborate the existing possibilities to perform systematic studies on the vast expanding fields of PHYSICS

Activate methods for implementing local, regional and international cooperation in PHYSICS RESEARCH

Lay down ways to perform projects forwarded by INDIVIDUALS, GROUPS or AUTHORIZED researchers in Novel PHYSICS Fields

DEAL to implement greater understanding of the importance of developing new facilities to perform research in new PHYSICS fields.

DEAL to encourage International Collaboration with Egyptian Teams in R&D projects to catch up

**Modern Trends in Physics Research**

## TECHNICAL PROGRAM

MTPR-010 technical program will fall in 12 sessions 3.5 hours each. Sessions are combined, or Keynote and Plenary presentations of invited speakers. Three parallel sessions for Oral presentations are devoted to the three topics

given below. Evening sessions are devoted to the Posters

## SCOPE

TOPIC I Atomic, Molecular, Material Science & Nanotech

TOPIC II Pulsed Lasers and Appl. & Chemical Physics

TOPIC III Astrophysics, Particle & Nuclear Physics

## LOCATION

The conference will be held at the new central library of Cairo University located at the University campus, Giza, EGYPT for the opening session at 09:00 am on Sunday 12 December followed by the HONORARY KEYNOTE LECTURE.

Travel to Sharm El Sheikh will start after lunch on 12 December by: 1- bus for free, 2- air flights to be paid.

Travel back to Cairo on the afternoon of Friday 16 Dec.

## LANGUAGE

The official language of the conference is ENGLISH.

## REGISTRATION

Registration & Accommodation Fees:

Egyptian Participants 900 LE

Egyptian Students 450 LE

International Participants 400 Euros

International Students 200 Euros

All participants are kindly requested to email registration forms by **1<sup>st</sup> December 2010**

## ACCOMMODATION

Lodging is available HB for 11 and 16 December at Pyramisa Hotel in Cairo. For 12 to 15 December

Lodging is Available FB at 5\* Hotel at Sharm El Sheikh. Details will be available in the separate Announcement.

## SUBMISSION OF PAPERS

Email the one page ABSTRACT before November in New Roman Font

Title font size 18 Bold, central. One Space between Names font size 14 Bold, central, one space between

Institution font size 10 italics Bold, 2 spaces between Text and References font size 12 bold spaced

Written on white A4 page in BLACK. Authors will be informed of the acceptance of their papers as well as presentation information including allocated time and mode (Oral or Poster) by 01/12/ 2010

## CONTACT INFO

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## IMPORTANT DATES

ABS. Title Deadtime 1<sup>st</sup>. Nov., 2010

Abstract Deadtime 12 Nov., 2010

Registration Deadtime 1<sup>st</sup>. Dec. 2010

Hotel Reservation Deadtime 20 Nov., 2010

MTPR-010 Conference 12 Dec., 2010

Manuscript Deadtime 12 Dec., 2010

## SPONSORS

- Ministry of Higher Education
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- Atomic Energy Authority
- Egyptian Society of Material Science
- Topical Society of Laser Science
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- **Project : Advanced Lab. for High Density Science.**