

2nd Announcement and Call for Abstracts

We are pleased to announce that the forthcoming Zakopane Conference on Nuclear Physics entitled *Extremes of the Nuclear Landscape*, 45th in the series of Zakopane Schools of Physics, will be held in Zakopane, Poland, from August 30 - September 5, 2010.

The conference is organized by Henryk Niewodniczański Institute of Nuclear Physics of the Polish Academy of Sciences, Kraków and Marian Smoluchowski Institute of Physics of the Jagiellonian University, Kraków.

Details and updated information can be found on the conference web page at:

<http://zakopane2010.ifj.edu.pl>

Scientific program:

The present conference is entitled "*Extremes of the Nuclear Landscape*". Invited lectures, selected seminar contributions and posters will cover new developments in the study of nuclear phenomena: from low lying shell model states to collective excitations at extreme spins and temperatures, from light to superheavy nuclei, from exotic proton drip-line nuclei to very neutron rich nuclear systems. New opportunities and challenges arising at the radioactive ion beam facilities and the latest experimental methods and apparatus will be presented. We will discuss the role of today's nuclear structure research in the understanding of astrophysical processes and the influence on other disciplines.

We wish to come back to the tradition proposing to everybody but first of all to the Ph.-D. Students and Post-Doctoral Fellows a midnight session which will combine the school-type structure of presentations with the frontier-research profile.

To expand our horizons a special lecture will focus on relations between physics, cosmology and philosophy.

The daily schedule of the conference will be composed of invited talks (duration of ca. 30 minutes) and selected contributed seminars (duration of 15 minutes) in the morning and evening topical sessions. The dedicated poster session will play a key role in the presentation and discussion of forefront research. To promote the discussion of the very latest research, participants not giving a talk are encouraged to present a poster. Poster session will be preceded by a flash (3 minutes) oral presentation of each poster.

Topical Sessions and Conveners

- "*Computing Atomic Nuclei: Frontiers of Nuclear Structure Theory*" - **Witold Nazarewicz** (Tennessee/Warszawa)
- "*Neutron-rich Nuclei*" - **Faiçal Azaiez** (Orsay)
- "*Proton-rich Nuclei*" - **Michael Bentley** (York)
- "*Structure of Light Nuclei and Astrophysics*" - **Tohru Motobayashi** (RIKEN)
- "*Superheavy Nuclei*" - **Matti Leino** (Jyväskylä)
- "*Collective Modes*" - **Angela Bracco** (Milano)
- "*Nuclear Reactions and Spectroscopy with Novel Techniques*" - **Marek Lewitowicz** (GANIL)
- "*Beyond Nuclear Physics*" - **Christoph Scheidenberger** (GSI)
- "*Symmetries in Nuclei – Guidelines for Experiment and Theory*" (Midnight School) - **Jerzy Dudek** (Strasbourg)

Special Sessions

- The conference will start with keynote talks given by **Walter Henning** (ANL) on nuclear experiments and by **James P. Vary** (Iowa) on the nuclear structure theory.
- The scientific part of the conference will be concluded with the lecture on physics, cosmology and philosophy given by the 2008 Templeton Prize Laureate **Michał Heller** (Kraków).

Invited Speakers

Dieter Ackermann (GSI), **Navin Alahari** (GANIL), **Giacomo de Angelis** (Legnaro), **Daniel Bazin** (MSU), **Didier Beaumel** (Orsay), **Christian Beck** (Strasbourg), **Bertram Blank** (Bordeaux), **Franco Camera** (Milano), **Silvio Cherubini** (Catania), **Sergey Dmitriev** (Dubna), **Tommi Eronen** (Jyväskylä), **Moshe Gai** (Yale), **Umesh Garg** (Notre Dame), **Jürgen Gerl** (GSI), **Paul Greenlees** (Jyväskylä), **Michael Hass** (Rehovot), **Michał Heller** (Kraków), **Walter Henning** (ANL), **Morten Hjorth-Jensen** (Oslo), **Hisashi Horiuchi** (Osaka), **David Jenkins** (York), **Wojciech Królas** (Kraków), **Reiner Krücken** (München), **Silvia Leoni** (Milano), **Indranil Mazumdar** (Mumbai), **Takashi Nakatsukasa** (RIKEN), **Frederic Nowacki** (Strasbourg), **Ludwik Piękowski** (Warszawa), **Stuart Pittel** (Delaware), **Josef Pochodzalla** (Mainz), **Walter Reviol** (St. Louis), **Dirk Rudolph** (Lund), **Andrzej Rybicki** (Kraków), **Krzysztof Rykaczewski** (ORNL), **Hiroyoshi Sakurai** (RIKEN), **Wojciech Satuła** (Warszawa), **Achim Schwenk** (Darmstadt/TRIUMF), **Sunniva Siem** (Oslo), **Peter Thirolf** (München), **James P. Vary** (Iowa), **Dario Vretenar** (Zagreb), **Robert Wadsworth** (York), **Hans-Jürgen Wollersheim** (GSI)

Social events:

The welcome reception and the conference banquet will take place in the first and the last day of the conference, respectively. Participants are warmly invited to take part in easy walks in the Tatra National Park organized every afternoon by the conference and lead by a certified mountain guide. We also plan a longer bus excursion (including lunch) to explore the neighboring Spisz and Podhale regions.

Call for abstracts:

Authors willing to present a contributed seminar or a poster are encouraged to submit a short abstract. The subject of the presentation has to be within the scope of the conference. Deadline for submission of abstracts is **May 31, 2010**. Please upload the abstracts using the form available through the conference web page.

A selection panel will review abstracts of contributions for oral and poster presentation. Authors of selected papers will be notified by **June 15, 2010**. Time allocated for a contributed seminar will be 12 minutes plus 3 minutes for discussion.

Posters preceded by flash- 3 minutes talks will be presented in a dedicated poster session.

Conference proceedings:

Invited talks, contributed seminars and a number of most excellent posters (selected by the Conference participants) will be a subject of a referee review and will be published in a special issue (March 2011) of *Acta Physica Polonica B*.

Accommodation and fees:

The conference will take place in the "Geo-Vita" conference house. Participants will be accommodated in two hotels "Geo-Vita" and "Antałówka" (located in a distance of about 100 meters from each other).

Cost of participation, paid before **July 15, 2010**:
(given in Polish Zloty – 1 PLN = ca. 0.25 Euro)

Participant - 2350 PLN
Accompanying person - 1800 PLN

Late payment (after July 15, 2010)- extra charge of 400 PLN

The price covers:

- Conference fee (conference services, materials and proceedings) – 550 PLN,
- accommodation in a double room, full board,
- bus transfers from Kraków to Zakopane and back,
- social events including excursions.

A limited number of single rooms will be available for an additional cost of 400 PLN.

Registration and payment:

Please register to the conference through the conference web page. Deadline for registration is **June 30, 2010**, however, as the number of single rooms available is limited, and the general number of participants is also limited due to the space available, we encourage you to register early.

Payment can be made using a credit card or by money transfer to our bank account. Please check our web site for payment details.

Important dates:

Abstract submission: April 6 - May 31, 2010

Speakers notified: June 15, 2010

Registration: April 15 - June 30, 2010

Early payment: July 15, 2010

Organizers and contact information:

Adam Maj - chairman of the conference

Piotr Bednarczyk - scientific secretary

Maria Kmiecik - managing director

Phone: +4812 6628202

Fax: +4812 6628423

E-mail: zakopane@ifj.edu.pl