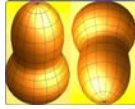


International Workshop “Shapes and Dynamics of Atomic Nuclei: Contemporary Aspects” (SDANCA-17), 5-7 October 2017, Sofia, Bulgaria



Description: [The International Workshop “Shapes and Dynamics of Atomic Nuclei: Contemporary Aspects” \(SDANCA-17\)](#) will be held in the Hotel of the Bulgarian Academy of Sciences (BAS) in Sofia, Bulgaria between the **4-th** (arrival day) and **8-th** (departure day) of **October 2017**. The Workshop is organized by the research group on “Models of Complex Deformed Nuclei” in the Institute of Nuclear Research and Nuclear Energy (INRNE) in BAS with the financial support of the Bulgarian National Science Fund under contract No. DFNI-E02/6. It appears as the second issue of the workshop [SDANCA-15](#), held in the same place in October 2015.

Aim: The aim of the Workshop is to provide an opportunity for highly motivated researchers in the field of nuclear shape dynamics and related phenomena to discuss advanced ideas, open problems and possible future directions for developments in the subject. The idea is to gather colleagues with a common interest and various expert skills who may wish to emphasize different contemporary aspects of the theoretical or experimental approaches to the shape dynamics problem in atomic nuclei and other physical systems as well. We believe this meeting can intensify already established scientific communications and inspire further long-term joint activity on the topic.

Main topics:

- *Collective and microscopic models for nuclear deformations;*
- *Shapes and symmetries - geometric and algebraic aspects;*
- *Coexisting shapes and shape-phase transition phenomena;*
- *Exotic shapes;*
- *Shapes and dynamics at the limits of stability;*
- *New data on nuclear deformations and current experimental techniques;*
- *Interdisciplinary aspects: links to shape phenomena in other physical systems.*

Program: The program will start in the morning of **5-th of October** (Thursday) and will end in the evening of **7-th of October** (Saturday) 2017. We plan to schedule 25 - 30 min standard talks as well as possibly shorter 15 min reports depending on the number of participants. The sessions will be organized by topics and the session convenors will have the possibility to conduct a

common discussion at the end of each session. A final discussion session in a possible round-table format is considered for the last afternoon providing an opportunity to outline perspectives for further developments and joint activity.

Publication: The Workshop contribution articles will be published in the [Bulgarian Journal of Physics](#) after refereeing. Instructions for authors and the manuscript style package in LaTeX are available on the journal web page <http://www.bjp-bg.com/>. We shall invite all speakers who wish to contribute with articles to provide the manuscripts shortly before or during the Workshop in order to publish them by the end of the year. We envisage a typical length of the contribution articles not exceeding 10 pages.

Conference site: The Workshop program, accommodation and a full board service are arranged in the Hotel of the Bulgarian Academy of Sciences (BAS) in Sofia, [Shipchenski prohod Str. 50](#). WiFi internet connections are available and a multimedia projector will be provided for the presentations. The hotel is situated at 10 mins walking distance from Pliska Place (former Hotel Pliska), from where a 5 mins bus connection to the city center is available. Also, a tram line connection to downtown is available from a station in front of the hotel campus. The hotel web site is <http://www.domnaucheniya.com/contacts/> (in Bulgarian only).

Fee: The workshop fee covering 4 nights accommodation, full board for 3 days (5-7 Oct) including an official dinner on 6-th of October, dinner following arrival on 4-th of October and breakfast on 8-th of October will be collected in cash in EURO at the registration in the Hotel. The fee is 300 EUR for regular participants and 200 EUR for students and accompanying persons. Single rooms, double rooms with possible single occupancy and apartments are available.

Social events: The city of Sofia provides a rich variety of cultural events and entertainments. The organizers will be happy to help participants who would wish to visit any particular event. Depending on the time allowed by the Program a collective sightseeing may be organized after the lunch on 6-th of October.

Access from the Airport: [The BAS hotel can be easily reached from Sofia Airport through Pliska Place](#). Pliska Place (former Hotel Pliska) can be reached from Terminal 2 of Sofia Airport by the public transportation [bus line 84](#). The trip takes about 20-25 minutes. Tickets are available at the bus-stop and from the bus driver. The price of the ticket is 1.6 Lev (about 0.8 EUR) per passenger with each large piece of luggage requiring an additional ticket at the same price. Alternatively a [taxi can be used](#).

Visa: Formal invitation letters for participants who need to apply for a visa can be sent by the Organizers if the required details are provided to the contact e-mail below.

Registration for participation: Colleagues who wish to participate in the Workshop have to *fill in the registration form* available on the [Workshop web page](#) and notify us by e-mail by **30-th of June** as well as *submit an abstract of their talk* (up to 1 page in LaTeX, template available on the web page) to the [contact e-mail](#) below by **15-th of July 2017**.

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