

Preface

The International Conference on Nuclear Structure and Related Topics (NSRT) is a triennial event. This Conference that may now be called "traditional" was established 15 years ago by the nuclear physics community of the Bogoliubov Laboratory of Theoretical Physics at the Joint Institute for Nuclear Research (Dubna, Russia). The idea was to bring together theoreticians and experimentalists working in the field of low-energy nuclear physics and thus to extend international contacts of Dubna physicists. Ideologically, the NSRT Conferences succeeded a series of conferences and schools on selected topics in nuclear structure which were held in turn in Dubna and Alushta (Ukraine) in the 70s-80s of the last century.

The 6th NSRT Conference (NSRT12) was held at the Bogoliubov Laboratory of Theoretical Physics from the 3rd to the 7th of July 2012. The Conference was attended by 124 participants from 19 countries of Europe, Asia, North and South America and Africa.

Naturally, the Conference Program was closely related to the current studies in low-energy nuclear physics at JINR. This year, the most widely presented topics were microscopic models for nuclear excitations based on energy density functionals; dipole nuclear excitations of various energies; large amplitude nuclear motion; new results in theoretical and experimental studies of nucleus-nucleus collisions at intermediate energies; cluster features in reactions and nuclear structure, etc. Each topic was covered both theoretical and experimental talks.

A nice feature of the Conference was a sizable number of young motivated participants who brought a renewed activity and enthusiasm in the conference atmosphere. Exciting new results were presented by young experimentalists from Technical University, Darmstadt and young theoreticians from Orsay, Milano and Dubna.

A pleasant boat trip down the Volga-river and an impressive excursion to the old Russian town Pereslavl-Zalessky with ancient gold-domed churches, monasteries, and nunneries located on the picturesque bank of Lake Pleshcheyevo added cultural value and indispensable diversity to the meeting.

The NSRT12 Conference was supported by the Russian Foundation for Basic Research, the Heisenberg - Landau (Germany-JINR), the Votruba - Blokhintsev (Czechia-JINR), and Bogoliubov - Infeld (Poland-JINR) Programs.

We look forward to seeing many familiar, and hopefully new faces as well, at NSRT15.

With best wishes,

V.V. Voronov,

R.V. Jolos,

Co-chairmen NSRT12

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