



Exotic Nuclei:EXON-2012

Yu E Penionzhkevich, Yu G Sobolev

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The production and the properties of nuclei in extreme conditions, such as high isospin, temperature, angular momenta, large deformations etc., have become the subject of detailed investigations in all scientific centers. The main topics discussed at the Symposium were: Synthesis and Properties of Exotic Nuclei; Superheavy Elements; Rare Processes and Decays; Physics with Radioactive Ion Beams; Experimental Facilities; and Future Projects.

This book provides a comprehensive overview of the newest results of the investigations in the main scientific centers such as GSI, GANIL, RIKEN, MSU, and JINR.

Contents:

- JINR: Brief Introduction into History, Present Status and Future Development (*Victor A Matveev*)
- Deconstructing the Nucleus One (or Two) Nucleons at a Time (*D Bazin*)
- Study of $^{8,9,10}\text{He}$ Structure in the Experiments with a Tritium Target (*S I Sidorchuk, A A Bezbakh, V Chudoba, I A Egorova, A S Fomichev, M S Golovkov, A V Gorshkov, V A Gorshkov, L V Grigorenko, G Kaminski, S A Krupko, Yu L Parfenova, P G Sharov, R S Slepnev, S V Stepantsov, G M Ter-Akopian, R Wolski*)
- Study of Exotic Nuclei Through Conversion Electron Spectroscopy (*M Stanoiu, C Petrone, C Borcea, R Borcea, S Calinescu, F Rotaru, F Negoita, J M Daugas, R Chevrier, L Gaudefroy, C Plaisir, G Simpson, G Gey, L Caceeres, O Sorlin, J C Thomas, G Georgiev*)
- Study of Nuclear Astrophysics at CNS and RIKEN (*Naohito Iwasa*)
- Features of Nuclear Reactions with Light Weakly Bound Nuclei at Energy Near the Coulomb Barrier (*N K Skobelev, Y E Penionzhkevich, V Kroha, V Burjan, Z Hons, J Mrázek, Š Pisko?, E Šimeckova, E I Voskoboynik*)
- Status and Perspective of Chemical Studies of Heaviest Elements (*H W Gäggeler*)
- Nuclear Structure Far from Stability (*R V Jolos*)
- Fissibility of Compound Nuclei (*Yoritaka Iwata, Sophia Heinz*)
- Measurements and Analyses of the Photonuclear Reaction Yields (*S A Karamian*)
- Production of Neutron-Rich Isotopes in the Calcium Region (*O B Tarasov, D J Morrissey, A M Amthor, L Bandura, T Baumann, D Bazin, J S Berryman, G Chubarian, N Fukuda, A Gade, T N Ginter, M Hausmann, N Inabe, T Kubo, J Pereira, M Portillo, B M Sherrill, A Stolz, C Sumithrarachchi, M Thoennesen, D Weisshaar*)
- PreSPEC — Gamma-Spectroscopy on the Way Towards NuSTAR (*Hans-Jürgen Wollersheim*)
- SCRIT Electron Scattering Facility at RIKEN (*Shuo Wang*)
- The Scientific Potential of the Far East, Present and Future (*Valentin Sergienko*)
- Prospect of RIKEN RI Beam Factory for Coming 5 Years (*Hideto En'yo*)
- Extreme of Landscape in Nuclear Physics via High Power Accelerators and Innovative Instrumentation (*S Gales*)
- Exotic Nuclei and Superheavy Element Research on Its Way from GSI to FAIR (*C Scheidenberger*)
- Exotic Nuclei Research at LLNL (*M A Stoyer, L E Ahle, J A Becker, L A Bernstein, D L Bleuel, J T Burke, R J Casperson, P A Chodash, A Chyzh, A Czeszumska, E Kwan, M J Moran, E B Norman, S W Padgett, M Pedretti, J J Ressler, D B Sayre, N D Scielzo, S A Sheets, W Stoeffl, A P Tonchev, B S Wang, C Y Wu, R M Yee*)

- Synthesis of the Heaviest Nuclei at FLNR: Main Results and Prospects (*Yu Oganessian*)
- and other papers

Readership: Advanced undergraduates and graduate students, and physicists working in the field of nuclear physics.

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