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## PUBLISHING DEPARTMENT

In 2009, the Publishing Department published JINR communications and preprints of 198 titles. Issued were 47 official publications.

A total of 38 books of abstracts, proceedings of various conferences, schools, and workshops organized by JINR, monographs, booklets and other publications were issued.

Among them are the proceedings of the Third International Conference «Distributed Computing and Grid-Technologies in Science and Education», the proceedings of the XVI International Seminar on Interaction of Neutrons with Nuclei (ISINN-16), the proceedings of the XIX International Baldin Seminar on High Energy Physics Problems «Relativistic Nuclear Physics and Quantum Chromodynamics» in 2 volumes, the proceedings of the XIII International Conference on Selected Problems of Modern Physics, dedicated to the 100th anniversary of birth of D.I. Blokhintsev. The annual reports of JINR for 2008 (in Russian and in English) were also published.

In 2009, a monograph by Yu. K. Akimov «Semiconductor Detectors of Nuclear Radiations» was published where the author discussed the physics basis of operation of semiconductor detectors and their characteristics, describes the modern status of semiconductor detectors' development and their application in the experimental physics and applied research.

To mark the centenary of birth of the outstanding Russian scientist Nikolai Nikolaevich Bogolyubov a series of publications were arranged. The collection «Nikolai Nikolaevich Bogolyubov: To the 100th Anniversary of Birth» includes the articles about the life and creative work of the scientist, the basic dates of his life and activity and a full bibliographic reference list of his works. The second edition of the book «Nikolai Nikolaevich Bogolyubov. Mathematician, Specialist in Mechanics, Physicist» was published. This book is an enlarged edition of the collection of papers, published by JINR in 1994. It contains reminiscences about N.N. Bogolyubov and essays on his scientific works. In the series «To the 100th Anniversary of Birth of N.N. Bogolyubov» there were printed 5 booklets: reminiscences about the teacher, written by Academicians D. V. Shirkov, A. N. Sissakian, A. N. Tavkhelidze, B. E. Paton, and a collective work by V. A. Matveev,

A. N. Sissakian, A. D. Sukhanov «Nikolai Nikolaevich Bogolyubov — Coryphaeus of Modern Theoretical and Mathematical Physics».

The book by Academician A. N. Sissakian «Quantum Theory Methods and Large Multiplicity Physics» in 2 volumes was published. It includes selected scientific articles of the author on multiple particle production; quasipotential approach and variational principles in quantum field theory; physics of deepinelastic scattering; phase transformations and critical phenomena in nuclear matter produced in heavy-ion collisions at high energies.

The book «The 60th Anniversary of the Laboratory of Nuclear Problems in the Achievements of Its Staff Members» includes information on the discoveries made by JINR DLNP scientific staff, and different-level prizes awarded to the laboratory staff members for their research.

In 2009, six issues of the journal «Physics of Elementary Particles and Atomic Nucleus» with 33 reviews were printed. Also published were six issues of the journal «Particles and Nuclei, Letters» with 96 articles, describing ingenious scientific, technological, methodical and applied results. Besides, the seventh issue of the journal «Particles and Nuclei, Letters» with 23 reports presented at the 4th International Workshop «Quantum Physics and Communication» was also published.

Publication of the bulletin «JINR News» in the Russian and English languages was continued. In 2009, 51 issues of the JINR weekly newspaper: «Dubna: Science. Cooperation. Progress» were printed.

In the series of the JINR University Centre study guides there were printed three publications: lectures by D. I. Kazakov «Radiative Corrections, Divergences, Regularization, Renormalization, Renormalization Group and All That in Examples in Quantum Field Theory»; methodical textbook by M. V. Frontasyeva «Neutron Activation Analysis at the IBR-2 Reactor of FLNP, JINR», and textbook by S. A. Baginyan, V. V. Ivanov and L. A. Sevastianov «Discrete Mathematics: Mathematical Logics, Elements of Coding Theory and Graph Theory».

The Publishing Department sent about 200 articles and reports by JINR scientists to journals and various conferences, symposia, workshops, and schools, held

both in the JINR Members States and in other countries. Papers by JINR staff members were published in the «Instruments and Experimental Techniques», «Yadernaya Fizika», «Physics of Elementary Particles and Atomic Nucleus», «Theoretical and Mathematical Physics», «Surface, Roentgen, Synchrotron and Neutron Investigations», «Physical Review», «Journal of Physics», «Physics Letters», «Nuclear Instruments and Methods», etc.

To keep readers of the Science and Technology Library informed about new publications received, there

are bulletins of the Library and of the Licensing and Intellectual Property Department printed by the Publishing Department. «Bibliographic Index of Papers Published by JINR Staff Members in 2008» was also issued.

The Publishing Department was also engaged in poster printing, Xerox copying and book binding to fulfill numerous orders of JINR laboratories. Over 110 000 various forms were printed for processing of experimental information and for other purposes.