

FLNP SEMINARS

- **I.P.Chernov** (Tomsk Polytechnic University, Russia) Physical processes in metal-hydrogen systems under radiation exposure (07.12.2013).
- **E.P.Shabalin** (FLNP, JINR) Thermal neutron scintillation detectors (28.03.2013).
- **T. Wilpert** (Helmholtz-Zentrum Berlin für Materialien und Energie, Germany) Recent development of detectors at the HZB (13.06.2013).
- **V. Valkovic** (Institute Ruder Boskovic, Croatia) Variations in Carbon/Oxygen Ratio in the Universe and on the Earth (19.06.2013).
- **K. H. Michel** (Department of Physics, University of Antwerp, Belgium) Theory of rigid-plane phonon modes in layered crystals (27.06.2013).
- **V. D. Sizarev** (JSC "NIKIET") Vibration monitoring and diagnostics of movable reflector PO-3 of the research reactor IBR-2.(03.10.2013).
- **A.I.Frank, V.N. Shvetsov** (FLNP, JINR) Seminar dedicated to the 105th anniversary of I.M. Frank (25.10.2013).
- **G.M. Arzumanian** (CKL,JINR) Spectral and structural characteristics of up-conversion oxyfluoride glass materials and nanoglassceramics on their basis (18.11.2013).
- **Yu. E. Penionzhkevich** (FLNR,JINR) Physics of exotic nuclei and its application (19.12.2013).



105th anniversary of I.M. Frank; A.I.Frank, Dubna. 2013.

CONFERENCES AND MEETINGS

On May 13-17, 2013 the 3rd Research Coordinated Meeting (RCM-3) related to the IAEA coordinated research project "Development, Characterization and Testing of Materials of Relevance to Nuclear Energy Sector Using Neutron Beams" was held in Dubna.

On May 20-25, 2013 the XXI International Seminar on Interaction of Neutrons with Nuclei (ISINN-XXI) was held in Alushta. The seminar was held under the banner of the 50th anniversary of neutron activation analysis at JINR.

On August 18-21, 2013 FLNP in collaboration with the Ministry of Education and Research BMBF organized a meeting "Instrument



ISINN-XXI, Alushta, Ukraine, 2013.

development on long pulse neutron sources". The event was aimed at discussing current trends in the development of facilities for neutron scattering on the sources operated in pulse mode.

5. EVENTS

On November 11-14, 2013 Tula hosted the II International Conference “Multiscale modeling of structures, composition of matter, nanostructured materials and nanotechnologies” dedicated to the memory of Professor A.N. Nikitin who used to work at the FLNP. The Frank Laboratory of Neutron Physics was the co-organizer of this event.

EDUCATIONAL PROGRAM

In 2013, two scientific schools for advanced training of young scientists were organized in the Frank Laboratory of Neutron Physics:

- the V **International Neutron School for Young Scientists and Students "Modern Neutron Diffraction Studies: Interdisciplinary Research of Nanosystems and Materials"** (October 28-November1, Dubna) (foto below).



- the IV **International Scientific School for Young Scientists and Students “Instruments and Methods of Experimental Nuclear Physics. Electronics and Automatics of Experimental Facilities”** (November 5-8, Dubna) (foto below).



These Schools were dedicated to the fundamental and applied aspects of research in the fields of neutron physics, condensed-matter physics, and materials science. These Schools were attended by students, postgraduates and young specialists from Russia and 9 JINR member-states. On November 25-27, 2013 the Joint JINR-Romania International School on Small-angle neutron scattering and complementary methods of research of "smart" materials was held in West University of Timisoara. The School was held in the framework of the TIM 2013 Physics Conference.

The FLNP successfully collaborates with the JINR University Centre in the organization of summer practical work for students from the JINR Member States (Belarus, Czech Republic, Poland, Romania, Slovakia,) and Associated countries (Egypt, South Africa). Lectures and excursions to the FLNP facilities for teachers of physics from Russia and the JINR Member States were organized as well. FLNP is always a partner of the JINR University Centre in organizing visits to the Laboratory neutron sources for participants of the Scientific School for school teachers from the Russian Federation and other JINR Member States and scientific excursions for pupils from high schools



Summer student practice, Dubna 2013.

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VISITS AT OUR FACILITIES

- Director of the Institute for Nuclear Research and Nuclear Energy Bulgarian Academy of Sciences, Dimitar Tonyev visited FLNP JINR in July 2013
- Delegation of the Helmholtz Association Research Centres from Germany, visited FLNP JINR in August 2013.
- On September 2013, the Minister of investment and the innovation of the Moscow Region G.V. Bondarenko, visited FLNP JINR.
- On September 24th, 2013, the delegation of Orgenergogaz OAO visited FLNP JINR. The members of the delegation met with the representatives of Department of Neutron Investigations of Condensed Matter and visited the experimental hall of IBR-2 reactor (FSD and SKAT diffractometers).
- On October 9, 2013 a delegation from Republic of South Africa visited the LNF, JINR. Members of the delegation met the Laboratory management representatives and visited the facilities on IBR-2 reactor (facility REGATA, spectrometers HRFD, SKAT, Epsilon and NERA).
- The members of the Symposium «German – Dubna Astropartical Projects: Status and Perspectives» visited FLNP JINR in November 2013.



Delegation of the Helmholtz Association Research Centres from Germany, Dubna 2013.

5. EVENTS



Delegation from the National Institute for Nuclear Research in Swierk, Poland, Dubna 2013.

- In November 15, 2013 a delegation from the National Institute for Nuclear Research in Swierk, Poland, visited FLNP. The members of the delegation visited IREN and IBR-2.
- On November 23, 2013 the Romanian delegation headed by the Minister of Higher Education, Scientific Research and Technological Development Mr. Mihnea Cosmin Costoiu, and the Czech delegation headed by the Minister of Education, Youth and Sports Mr. Dalibor Štys visited the JINR Laboratory of Neutron Physics. The delegation members met the Directorate of the Laboratory and visited the experimental hall of the IBR-2 reactor.