



**International Symposium on Exotic Nuclei
“EXON2006”
Khanty-Mansiysk (Russia, West Siberia)
17-22 July 2006**

Scientific Programme (preliminary)

**July 17
MONDAY**

9:30	REGISTRATION	
10:00-10:30	OPENING	Welcoming Speech
10:30 – 11:00	Reutov Yuri Khanty-Mansiysk, Russia	“Science& Education in Khanty-Mansiysk”
11:00-11:30	Coffee Break	
11:30-12:05	Corradi Lorenzo (Legnaro, Italy)	“Aspects of low energy binary reactions”
12:05-12:40	Zagrebaev Valeri (Dubna, Russia)	“Sub-barrier fusion of weakly bound nuclei”
12:40-13:05	Lee Hiu Ching (Michigan, USA)	“Neutron spectroscopic factors from transfer reactions”
13:05-13:30	Kniajeva Galina (Dubna, Russia)	“$^{40,48}\text{Ca}+^{144,154}\text{Sm}$: influence of deformation and shell”
13:30-15:00	Lunch	
15:00-15:35	Kalpakchieva Rumiana (Dubna, Russia)	“The interaction of ^6He with ^{197}Au and ^{206}Pb”
15:35-16:10	Caamano Manuel (Santiago de Compostela, Spain)	“Production of neutron-rich isotopes near N=126 in cold-fragmentation reactions induced by relativistic ^{208}Pb projectiles”
16:10-16:45	Golovkov Mikhail (Dubna, Russia)	“First results of the $^8\text{He}+d$ experiment”
16:45-17:15	Coffee Break	
17:15-17:40	Lashko Yuliya (Kiev, Ukraine)	“Cluster structure of bound states and resonances of light neutron-rich nuclei: coupled-channel approach”
17:40-18:05	Borzov Ivan (Obninsk, Russia)	“Beta-decay of very neutron-rich nuclei near exotic shell-closures”

- 18:05-18:30 **Kartavenko Vladimir** “On stability of the neutron rich light nuclei”
(Dubna, Russia)
- 18:30-18:55 **Lukyanov Konstantin** “Microscopical model analysis of the ${}^4\text{He}$, ${}^6,7\text{Li}+{}^{28}\text{Si}$
(Dubna, Russia) total reaction cross sections at the energy range 5-50, A MeV”
- 18:55-19:20 **Sharma Ajay** “Binding energy and mass defect in deuteron”
(Shimla, India)
- 19:30 **Welcome Reception**

18 July
Tuesday

- 09:30-10:05 **Gales Sidney** “Investigation of exotic nuclei at GANIL”
(Caen, France)
- 10:05-10:40 **Stoehlker Thomas** “Experiments with cooled heavy ions at the ESR
(Darmstadt, Germany) storage ring”
- 10:40-11:15 **Weick Helmut** “Mass and lifetime measurements in storage rings”
(Darmstadt, Germany)
- 11:15-11:40 **Coffee Break**
- 11:40-12:15 **Lewitowicz Marek** “Challenges of SPIRAL2”
(Caen, France)
- 12:15-12:50 **Imai Nobuaki** “Status of Tokai Radioactive Isotope Accelerator
(Tokai, Japan) Complex and feasibility study for transfer reactions using low-energy RNB”
- 12:50-13:25 **Bräuning-Demian Angela** “The FAIR Project: a future Antiproton and Heavy
(Darmstadt, Germany) Ions international research facility in Darmstadt”
- 13:30-15:00 **Lunch**
- 15:00-15:35 **Motobayashi Tohru** “Progress report of RIKEN RI Beam Factory Project”
(Wako, Japan)
- 15:35-16:10 **Gulbekian Georgy** “Present status of the DRIBs project at Dubna”
(Dubna, Russia)
- 16:10-16:45 **Kubo Toshiyuki** “Status and overview of BigRIPS separator project at
(Wako, Japan) RIKEN”
- 16:45-17:10 **Coffee Break**
- 17:10-17:45 **Villari Antonio** “S3 super separator-spectrometer for very high
(Caen, France) intensity stable beams in SPIRAL2”

17:45-18:20	Shimoura Susumu (Wako, Japan)	“High resolution magnetic spectrometer SHARAQ in RIBF”
18:20-18:55	Popeko Andrey (Dubna, Russia)	“On-line separator for Gamma-spectroscopic studies”
19:00	Dinner	
20:00	Social program	

**19 July,
Wednesday**

09:30-10:05	Greiner Walter (Frankfurt, Germany)	“Fusion reactions of superheavy and giant nuclear systems”
10:05-10:40	Hofmann Sigurd (Darmstadt, Germany)	“Studies of SHE at SHIP”
10:40-11:15	Oganessian Yuri (Dubna, Russia)	“Heavy Element Research at Dubna (main results)”
11:15-11:45	Coffee Break	
11:45-12:20	Block Michael (Darmstadt, Germany)	“Mass measurements at SHIPTRAP”
12:20-12:55	Staszczak Andrzej (Lublin, Poland)	“Superheavy Nuclei in Self-consistent Description”
12:55-13:30	Yeremin Alexander (Dubna, Russia)	“Gamma and electron spectroscopy of heavy nuclei at FLNR JINR”
13:30-13:55	Aritomo Yoshihiro (Dubna, Russia)	“Roles of shell effects in fusion process for synthesis of superheavy elements”
13:55-15:00	Lunch	
15:00-15:35	Dmitriev Sergei (Dubna, Russia)	“Chemistry of Superheavy Elements. Latest Results and Prospects”
15:35-16:10	Duellmann Christoph (Darmstadt, Germany)	“Physical prepreparation: a powerful new method for transactinide chemists”
16:30-19:00	Poster Session	
19:00-20:00	Dinner	

20 July, Thursday

- 09:30-10:05 **Kanazawa Mitsutaka** (Chiba, Japan) “Carbon beam radio-therapy and research activities at HIMAC”
- 10:05-10:40 **Apel Pavel** (Dubna, Russia) “Ion-track membranes and their use in biological and Medical Applications”
- 10:40-11:15 **Kholmurodov Kholmirzo** (Dubna, Russia) “Computer molecular dynamics studies on the protein structures (visual pigment rhodopsin and cyclin-dependent kinases) ”
- 11:15-11:50 **Migunov Victor** (Khanty-Mansijsk, Russia) “Science & Ecology in Khanty-Mansijsk”
- 11:50-12:15 **Coffee Break**
- 12:15- **Excursion (banquet)**
- 19:00-20:00 **Dinner**

21 July, Friday

- 09:30-10:05 **Goennenwein Friedrich** (Tubingen, Germany) “Rotation of nuclei as observed in ternary fission induced by polarized neutrons”
- 10:05-10:30 **Beresova Martina** (Dubna, Russia) “Characteristics of symmetric and asymmetric modes as a function of the compound nucleus excitation in the proton - induced fission of ^{233}Pa , ^{239}Np and ^{243}Am ”
- 10:30-11:05 **Kelic Aleksandra** (Darmstadt, Germany) “New insights into the fission process by the study of relativistic nuclear collisions”
- 11:05-11:30 **Bogachev Alexey** (Dubna, Russia) “Dynamics and fission modes in proton induced fission of transactinide nuclei at intermediate energies”
- 11:30-11:50 **Coffee Break**
- 11:50-12:15 **Kamanin Dmitri** (Dubna, Russia) “Status and Prospects of Search for Collinear Cluster Tripartition”
- 12:15-12:50 **Verney David** (Orsay, France) “Present Status of the ALTO project”
- 12:50-13:25 **Lebois Matthieu** (Orsay, France) “First results on the measurement of the mass separated fission fragment yields at ALTO”

13:25-14:00	Enrico Fioretto (Legnaro, Italy)	“The PRISMA-CLARA setup: experimental results and future plans”
14:00-15:00	Lunch	
15:00-15:35	Fortier Simone (Orsay, France)	“Search for resonances in ^4n , ^7H and ^9He via transfer reactions ”
15:35-16:00	Sidorchuk Sergey (Dubna, Russia)	“Recent results on the structures of heavy helium nuclei obtained in the direct reaction studies with the beams of ^6He and ^8He .”
16:00-16:25	Caamano Manuel (Santiago de Compostela, Spain)	“Study of extremely neutron-rich light isotopes. Experimental observation of ^7H ”
16:25-16:50	Srivastava Praveen Chandra (Allahabad, India)	“Parity inversion and other properties of Be-11 halo nuclei.”
16:50-17:20	Coffee Break	
17:20-17:55	Schmitt Christelle (Lyon, France)	“Nuclear dissipation studies by means of peripheral heavy ion collisions at relativistic energy with radioactive beams”
17:55-18:30	Yoshimi Akihiro (Wako, Japan)	“Electric quadrupole moment of neutron rich Al isotopes”
18:30-18:55	Belloni Francesca (Moscow, Russia)	“Still to define. It deals with Xe and Kr yields in photofission of Np”
19:00-	Farewell party	

22 July, Saturday

09:30-09:55	Artemenkov Denis (Dubna, Russia)	“Clustering in peripheral interactions of relativistic nuclei in nuclear track emulsion”
09:55-10:20	Severyukhin Alexei (Dubna, Russia)	“Generator coordinate Qn-Qp study of low-lying collective states in neutron-rich oxygen isotopes”
10:20-10:45	Karpov Alexander (Dubna, Russia)	“Adiabatic potential energy of heavy nuclear system in low-energy fusion–fission processes”
10:45-11:10	Zubov Andrey (Dubna, Russia)	“Isotopic dependence of neutron emission from dinuclear System”
11:10-11:35	Karpeshin Feodor (St.Petersburg, Russia)	“Resonances in Nuclear Interactions: alpha-, beta-, gamma”
11:35-12:00	Coffee Break	

12:00- **Round Table**

13:30-15:00 **Lunch**

15:00- **Excursion**

19:00-20:00 **Dinner**

POSTER SESSION

Abd Elghny Hassan	Study of fusion reactions induced by $^{4,6,8}\text{He}$ on $^{204, 206, 208}\text{Pb}$ targets
Zdzislaw Blaszcak	VII International Poznan Workshop
Georgy Goncharov	Superheavy elements in the nature: nucleosynthesis signatures and search in cosmic rays.
Alexander Svirikhin	Prompt Neutrons from spontaneous fission of heavy nuclei (problem, methods of registration)
Alexei Voinov	Detection of superheavy elements' isotopes on Dubna Gas-filled Separator.
Grzegorz Kaminski	The beam profile ionization monitor for permanent routine beam control
Gibinski Dimitr	Neutron Detectors with Helium-Filled Counters in Different Experiments
Farid_Abdullin	New Data on Average Charge Values of Heavy Nuclei
Elena Kuznetsova	Project of a new irradiation facility at the microtrone MT25.
Evgeni Cherepanov	Fission And Nuclear Liquid-Gas Phase Transition
Nikolay Aksenov	Radiochemical separation of group IV elements from Sr and Ln in aqueous HF solutions
Alexander Kulko	Excitation functions for complete fusion and transfer reactions in the interaction of ^4He nuclei with ^{197}Au
Izosimov Igor	γ (TAGS)-n(He-3)- β Coincidence Spectrometer for β -Delayed Neutron Decay Study
Tyukavkin Andrey	“Peculiarities of the data processing in experiments aimed at studying for rare decay modes”
Bozhikov Gospodin	“Complex formation trends of group IV with fluoride ions”
Tereshatov Evgeny	“Investigation of Dubnium chemical behaviour. Radiochemical separation of group V elements”