



International Symposium on Exotic Nuclei

Sochi, Russia
28 September - 2 October 2009



Scientific Programme (preliminary)

Sunday 27 September

18:00÷19:30 *Registration*

Monday 28 September

8:30÷9:00 *Registration*

9:30÷10:00 *Opening*

Chairperson Oganessian Yu.

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|-------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|
| 10:00÷10:30 | Feldmeier H.
GSI, Germany | “Exotic structures in light nuclei ” |
| 10:30÷11:00 | Hamilton J.
Vanderbild Univ.,
USA | “New Vistas of the Structure of Neutron Rich Nuclei “ |
| 11:00÷11:30 | Kubono S.
CNS, Tokyo | “Nuclear Astrophysics with Low -energy RI Beams“ |
| 11:30÷11:50 | Coffee break | |
| 11:50÷12:20 | Nakamura T.
Tokyo Institute of
Technology, Japan | “Coulomb and nuclear breakup of ^{31}Ne and ^{22}C ” |
| 12:20÷12:45 | Grevy S.
GANIL, France | “N=28” |
| 12:45÷13:10 | Rossel-Chomaz P.
GANIL, France | “Active target detectors“ |
| 13:10÷13:35 | Golovkov M.
FLNR, Russia | “Role of Correlation Measurements in the Studies of Light Drip-Line Nuclei” |
| 13:35÷15:00 | Lunch | |

Chairperson Bollen G.

- 15:00÷15:30 **Billowes J.** “Laser spectroscopy at European ISOL facilities “
University of
Manchester, GB
- 15:30÷15:55 **Muenzenberg G.** “Large-Scale Mass Measurements – What do we learn?”
GSI, Germany
- 15:55÷16:20 **Cavallaro M.** " Study of neutron rich nuclei via charge -exchange reactions ".
LNS-INFN, Italy
- 16:20÷16:45 **Ishihara M.** “Study of Nuclear Moments on Exotic Nuclei ”
RIKEN, Japan
- 16:45÷17:05 **Coffee break**
- 17:05÷17:35 **Sharma M.M.** “Evidence of Double Magicity in rp-process Waiting-point
Kuwait Univ.,
Kuwait
Nuclei”
- 17:35÷18:00 **Borcea C.** “Phenomenology at the drip lines “
NIPNE, Rumania
- 18:00÷18:25 **Verney D.** “Structure of neutron rich Ga and Ge isotopes beyond N = 50
IPN, France
observed at ALTO “
- 18:25÷18:50 **Goergen A.** “Evolution of shapes and shape coexistence in
CEA, France
exotic nuclei”

19:30

WELCOME PARTY

Tuesday, 29 September

Chairperson Dmitriev S.

- 9:00÷9:30 **Hofmann G.** “Studies of SHE at SHIP”
GSI, Germany
- 9:30÷10:00 **Gaeggeler H.** "Chemistry experiments with elements 112 and 114"
Paul Scherrer Inst.,
Switzerland
- 10:00÷10:30 **Pershina V.** “Electronic Structure and Gas-Phase Behavior of the Heaviest
GSI, Germany
Elements”
- 10:30÷11:00 **Coffee break**
- 11:00÷11:30 **Stoyer M.** “Nuclear Science at the National Ignition Facility”
Livermore, USA

- 11:30÷12:00 **Rykaczewski K.** “Studies of the short-lived charged-particle
ORNL, USA emitters at Oak Ridge“
- 12:00÷12:30 **Smorra C.** “TRIGA-TRAP: High-precision mass measurements on short-
Univ. Mainz, Germany lived neutron-rich nuclei and transuranium
elements at the research reactor TRIGA Mainz “
- 12:30÷13:00 **Hauschild K .** “Spectroscopy of transfermium nuclei using the GABRIELA
CSNSM, France setup at the focal plane of the VASSILISSA recoil separator,
Dubna”
- 13:00÷13:30 **Block M.** “First Direct Mass Measurements of
GSI, Germany Nobelium Nuclides with SHIPTRAP “

13:30÷15:00 **Lunch**

Chairperson Goennenwein F.

- 15:00÷15:30 **Zagrebaev V.** “Formation of Heavy and Superheavy Neutron Rich Nuclei”
FLNR, Russia
- 15:30÷16:00 **Karpeshin F.** “Giant resonances in the alpha-nucleus interaction “
Univ. St.-Petersburg,
Russia
- 16:00÷16:20 **Coffee break**

1 parallel session

Chairperson Dlouhy Z.

- 16:20÷16:55 **Duval F.** “SHIRaC : The Spiral2 High Intensity Radiofrequency Cooler
LPC, France for DESIR Facility”
- 16:55÷17:20 **Yeremin A.** “Development of the experimental setup dedi cated for alpha,
FLNR, Russia gamma and electron spectroscopy of heavy nuclei at FLNR
JINR “
- 17:20÷17:55 **Rodin A.** “Mass-spectrometric research of heaviest nuclei ”
FLNR, Russia
- 17:55÷18:20 **Stanoiu M.** “Neutron elastic scattering off deuteri um, from NN forces to
IRMM-JRC, Belgium nuclear safety”
- 18:20÷18:55 **Saint-Laurent M.-G.** “Light RIB production for SPIRAL -1 and 2”
GANIL,
France

2 parallel session

Chairperson Blaszcak Z.

- 16:20÷16:55 **Nagae D.**
Tsukuba University,
Japan “Lifetime measurement for the first 2^+ states in $^{162, 164}\text{Gd}$ populated by the decay of $^{162, 164}\text{Eu}$ “
- 16:55÷17:20 **Denikin A.**
FLNR/JINR ”Many Body Effects in Elastic Scattering of Light Exotic Nuclei”
- 17:20÷17:55 **Velten P.**
LPC, France “Beta Neutrino Correlation Measurement with Trapped Radioactive Ions “
- 17:55÷18:20 **Andreyev A.**
IKS, KU Leuven,
Belgium “Electron-capture delayed fission (ECDF) in the lead region“
- 18:20÷18:55 **Samarin V.**
Cheboksary Univ.,
Russia ” Non-oscillatory model of nucleons states in axial symmetric heavy nuclei and two-nuclei systems”
- 19:00 **DINNER**

Wednesday, 30 September

Chairperson Guillemaud-Mueller D.

- 9:00÷9:30 **Geissel H.**
GSI, Germany “Present and Future Experiments with Stored Exotic Nuclides at Relativistic Energies “
- 9:30÷10:00 **Motobayashi T.**
RIKEN, Japan “New Research Opportunities at RIKEN RI Beam Factory“
- 10:00÷10:30 **Gales S.**
GANIL, France “GANIL-SPIRAL2: at the dawn of the new era “
- 10:30÷11:00 **Bollen G.**
NSCL MSU, USA “FRIB - Facility for Rare Isotope Beams at MSU “
- 11:00÷11:20 **Coffee break**
- 11:20÷11:50 **Ibrahim F.**
IPN, France “Status of the ALTO facility “
- 11:50÷12:15 **Gulbekyan G.**
FLNR, Russia “Status and Future Development of the FLNR Accelerator Complex”

- 12:15÷12:40 **Chubaryan G.** TAMU Cyclotron Institute, USA “ Production of Rare Isotope Beams at the TAMU Cyclotron Institute (Update Project) “
- 12:40÷13:05 **Lichtenthaler R.** Instituto de Fisica, Universidade de Sao Paulo, Brazil “The research program at RIBRAS (Radioactive Ion Beams in Brasil) “
- 13:05÷13:30 **Uesaka T.** CNS, Tokyo Univ. Japan “SHARAQ spectrometer: current status and future experimental plans”
- 13:30÷15:00 **Lunch**
- Chairperson Kubono S.**
- 15:00÷15:30 **Blumenfeld Y.** CERN “Developments at ISOL facilities : From ISOLDE towards EURISOL”
- 15:30÷16:00 **Kishimoto T.** Osaka Univ., Japan “Kaon-nucleus interaction studied by kaon induced reactions”
- 16:00÷16:30 **Jeong Sun-Chan** Institute of Particle and Nuclear Study, KEK, Japan “Tokai Radioactive Ion Accelerator Complex (TRIAC): present and future “
- 16:30÷16:50 **Coffee break**
- 16:50÷17:15 **Calabretta L.** LNS-INFN, Italy “Radioactive Ion beams at INFN Laboratories “
- 17:15÷17:40 **Kubo T.** RIKEN, Japan “ Present Status and Overview of BigRIPS Separator at RIKEN RI Beam Factory”
- 17:40÷18:05 **Verde G.** INFN, Sezione di Catania, Italy “Exploring dynamics and femtoscopy in nuclear reactions with exotic systems: status and future perspectives “
- 18:05÷18:30 **Franberg H.** GANIL, France “RIB production for SPIRAL 2 – the challenges “
- 18:30÷18:55 **Delahaye P.** GANIL, France “Heavy targets and charge breeding for SPIRAL1 “

20:00

Poster session

Secretary Maslov V.

Aksenov N.
JINR/ FLNR

” Ion exchange behaviour of Ti, Zr, Hf, Nb and Ta as Homologues of Rf and Db in mixed Aqueous–Organic HF solutions”

Anischenko Yu.
Omsk Univ.
Russia

” The fission rate of highly excited nuclei in multi - dimensional stochastic calculations ”

Baranov D.
Protvino,
Russia

“Production of neutron-rich Bi isotopes by electric field”

Blaszczak Z.
Poznan, Poland

”Magnetic Moment Distribution Radii of Exotic Atomic Nuclei”

Gegechkori A.
Omsk Univ., Russia

” Impact of non-markovian effects and orientation degree of freedom on the fission rate and time ”

Danilov A.
RRC "Kurchatov Institute",
Russia

” Determination of the radii of some threshold states in light nuclei and observation of neutron halos in the excited states of ^{13}C and ^9Be ”

Demyanova A.
RRC "Kurchatov Institute",
Russia

” $^{12}\text{C}+^{12}\text{C}$ Large Angles Elastic Scattering at 240 MeV”

Dlouhy Z.
NPI, Rez,
Czech Rep.

”Structure of Light Neutron-Rich Nuclei”

Foshchan A.
Kharkov Univ.,
Ukraine

”Data Acquisition System for Multichannle Spectrometer on Base of NGDP Framework”

Isaev A.
FLNR/JINR

” Study of spontaneous fission of neutron deficient isotope Fm-246”

Itkis I.
JINR

“The Characteristics of Neutron Emission In Fission And Quasi-Fission of Hs”

Kamanin D.
JINR

” Collinear cluster tripartition in the light of nuclear charge and neutron multiplicity measurements ”

Krupko S.
FLNR/JINR

”Fragment Separator ACCULINN2”

Krupa L. FLNR/JINR	”Manifestation of Gamma ray Emission In Fission and Quasifission of Heavy and Superheavy Elements”
Kuznetsova E. FLNR/JINR	” Collinear cluster tripartition as a neutron source – evaluation of the setup parameters”
Kaminski G. FLNR/JINR	” Study of the velocity distributions of forward emitted fragments in the ^{11}B (32.9 AMeV) + ^9Be (^{27}Al , ^{197}Au) reactions”
Lukyanov S. FLNR/JINR	“Projectile Fragmentation of Unstable Beams of ^{68}Ni , ^{69}Cu and ^{72}Zn at $E/A \sim 95$ MeV/A”
Kuterbekov K. Astana, Kazakhstan	” Nuclear reaction by near barrier energy with loosely coupled nuclei”
Mitrofanov S. EU/EURE/CR/CYC Belgium	” Title to be determined”
Sidorchuk S. FLNR/JINR	“Recent results on the structures of heavy helium nuclei obtained in the direct reaction studies with the beams of ^6He and ^8He ”
Sereda Yu. FLNR/JINR	” Forward-angle yields of $^{6,8}\text{He}$ and ^9Li isotopes in $^{11}\text{B}(33\text{ AMeV}) + ^9\text{Be}$ reaction”
Svirikhin A. FLNR/JINR	”Neutron Multiplicity at Spontaneous Fission of ^{246}Fm ”
Sobolev Yu. FLNR/JINR	"Application of pulse-shape discrimination method for neutron rich reaction studies"
Parkar V. Tata Inst., India	“Production of ^6He in $^7\text{Li}+^7\text{Li}$ reaction”
Tereshatov E. FLNR/JINR	”Relatively Long-Living Dubnium Isotopes and Chemical Identification of Superheavy Elements”
Testov D. FLNR/JINR	”Title to be determined”
Voinov A. FLNR/JINR	” Study of the complete-fusion reaction $^{226}\text{Ra}+^{48}\text{Ca}$ ”
Zarubina I. JINR	” Images of Peripheral Fragmentation of Relativistic Nuclei ”

Thursday, 1 October

Chairperson Itkis M.

- 9:00÷9:30 **Ogloblin A.**
RRC "Kurchatov
Institute", Russia "Nuclear Threshold States – Yesterday, To-day, To-Morrow "
- 9:30÷9:55 **von Oertzen W.**
HMI, Germany "Nuclear Clusters and Covalent Molecules on the Femto-scale"
- 9:55÷10:20 **Goennenwein F.**
Univ. of Tuebingen,
Germany "Comparative study of TRI and ROT effects
in ternary fission of ^{233}U , ^{235}U and ^{239}Pu
induced by cold polarised neutrons "
- 10:20÷10:55 **Goldberg V.**
TAMU, USA "Alpha-cluster states in N non equal to Z nuclei "
- 10:55÷11:15 **Coffee break**
- 11:15÷11:40 **Nishio K.**
Japan Atomic
Energy Agency,
Japan "Effects of nuclear orientation on fusion and fission process for
reactions using actinide target nuclei "
- 11:40÷12:05 **Pyatkov Yu.**
FLNR, Russia "Preliminary results on direct observation of true ternary fission in
the reaction $^{232}\text{Th}+d$ (10MeV) "
- 12:05÷12:30 **Litvinov Yu.**
GSI/MPI, Germany "Beta decay of highly-charged ions"
- 12:30÷12:55 **Karamian S.**
FLNR, Russia "Evidences for causal decoupling between statistical probability
and time scale of fission "
- 12:55÷13:20 **Knyazheva G.**
FLNR, Russia "Fusion probability of the formation of superheavy element
with Z=120 in the reactions $^{58}\text{Fe}+^{244}\text{Pu}$ and $^{64}\text{Ni}+^{238}\text{U}$ "
- 13:30÷15:00 **Lunch**
- 15:00 **Excursion+ Banquet**

Friday, 2 October

Chairperson Ogloblin A.

- 9:00÷9:30 **Trzaska W.**
University of
Jyväskylä, Finland “Recent Developments at the Accelerator Laboratory in Jyväskylä“
- 9:30÷9:55 **Harakeh M.**
GANIL, France “ Compression Modes: Nuclear Incompressibility and Microscopic structure“
- 9:55÷10:20 **Szilner S.**
Ruder Boskovic
Institute, Croatia “Quasi-elastic reactions : a survey on recent results “
- 10:20÷10:45 **Nikolskii E.**
RIKEN and RRC
"Kurchatov Institute" “Search for ^7H at RIKEN”
- 10:45÷11:00 **Coffee break**
- 11:00÷11:25 **Tarasov O.**
NSCL MSU, USA “Observation of New Neutron-Rich Isotopes of the Elements $12 \leq Z \leq 25$ at the NSCL”
- 11:25÷11:50 **Cappuzzello F.**
IKS- INFN , Italy "States of ^{15}C via the ($^{18}\text{O}, ^{16}\text{O}$) reaction".
- 11:50÷12:15 **Lozeva R.**
CSNSM, France “Quadrupole moment studies of the 6^- isomeric state in ^{66}Cu “
- 12:15÷12:40 **Sulignano B.**
CEA Saclay,
France “Investigation of high K states in ^{252}No ”
- 12:40÷13:00 **Lubian J.**
Instituto de Fisica,
Brasil “Breakup dynamical effects on the fusion of exotic weakly bound systems “
- 13:00÷14:30 **Lunch**

Chairperson Rykaczewski K.

- 14:30÷14:55 **Aritomo Y.**
FLNR, Russia “Analysis of dynamical process with mass distribution of fission fragments using actinide target nuclei “
- 14:55÷15:20 **Borzov I.**
GSI, Germany “Beta-Decay Near The N=126 Neutron Shell”

15:20÷15:45	Zarubin P. JINR, Russia	“Clustering Features of Light Nuclei in Relativistic Fragmentation “
15:45÷16:10	Kumar A. BHU, India	“Level density parameter-A tool to investigate nuclear reaction dynamics”
16:10÷16:30	Coffee break	
16:30	Closing	
18:00	Dinner	

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