

Program

(22 April 2025)

Wednesday, April 23, 2025

TIME	TOPIC	Speaker
9:00	Welcome	Thomas Nilsson (FAIR / GSI)
	News from Recoil-Separator Laboratories (Part 1)	Chair: Michael Block (GSI)
9:10	Upper limit for the $^{248}\text{Cm}(^{50}\text{Ti}, \text{xn})^{298-\text{x}}\text{Og}$ reaction cross section	Benoit Gall (RIKEN/CNRS)
9:35	Measurement of ground-state and isomeric-state ratio in nuclei produced in multinucleon transfer reactions using JAEA Recoil Mass Separator	Fumi Suzuki (JAEA)*
10:00	The result of $^{48}\text{Ca} + ^{243}\text{Am}$ reaction on SHANS2	Zaiguo Gan (IMP, Lanzhou)
10:25	Coffee Break	
	News from Recoil-Separator Laboratories (Part 2)	Chair: F.P. Heßberger (GSI)
10:50	First results of SHE Factory with beams of ^{54}Cr and ^{50}Ti	Nikita Kovrizhnykh (FLNR)*
11:15	Studies on Heavy Nuclei $^{261,262}\text{Bh}$ and ^{247}Md at SHANS2**	Zhiyuan Zhang (IMP)
11:35	The past, present, and future of multinucleon transfer research using in-flight separator RITU	Niels Landsman (Univ. of Jyväskylä)
12:00	Fission and K-isomer studies @TASCA	Jadambaa Khuyagbaatar (GSI)
12:25	Lunch	
13:30	Workshop Photo	
	Chemistry (Part 1)	Chair: Jan John (CTU)
13:45	Status and Prospect of the SHE Chemistry at IMP	Qin Zhi (IMP)
14:10	The status and plans of the Heavy Elements group at PSI/ETHZ	Patrick Steinegger (PSI/ETHZ)
14:35	Towards the carbonyl chemistry of Bh – studies of carbonyl complexes with ^{259}Sg	Alexander Yakushev (GSI)
15:00	Reactivity of polonium towards quartz surfaces	Katharina Hermainski (JGU)
15:25	Coffee Break	
	News from Recoil-Separator Laboratories (Part 3)	Chair: Chr. Stodel (GANIL)
15:45	Exploring the isotopic border of seaborgium @TASCA	Pavol Mosat (GSI)
16:10	Recent studies of heavy nuclei with Argonne Gas-Filled Analyzer	Amel Korichi (IJCLab, Orsay)
16:35	Laser spectroscopy of fermium isotopes across the N=152 shell gap	Dominik Studer (GSI)
17:00	Complete spectroscopy with FRIB Decay Station	Robert Grzywacz (Univ. of Tennessee)*
17:25	End	
18:30	Dinner (at <i>Bürgermeister Pohl Haus</i> , Wixhausen; at one's own charge; registration needed)	

Time corresponds to Central European Summer Time (CEST / UTC+02:00h)

Thursday, April 24, 2025

TIME	TOPIC	Speaker
9:00	Welcome	Christoph E. Düllmann (JGU Mainz / GSI / HIM)
	Nuclear reactions and fission (Part 1)	Chair: A. Türler (Univ. Bern)
9:10	Investigation of non-fusion reaction products in the $^{51}\text{V} + ^{248}\text{Cm} \rightarrow ^{299}119^*$ fusion-evaporation reaction	Pierre Brionnet (RIKEN)*
9:35	Fission modes in neutron-rich Fm region by 6-dimensional Langevin equation using Cassini ovals shape parametrization	Kazuki Okada (JAEA)*
10:00	Evaluation of synthesis of new superheavy elements and the possibility of reaching the Island of Stability from neutron-rich regions in nuclear chart**	Yoshihiro Aritomo (Kindai Univ.)
10:20	Coffee Break	
	Technical developments for SHE studies	Chair: B. Gall (Univ. Strasbourg)
10:40	GASSOL: A new solenoidal pre-separator for studies of chemical properties of superheavy elements	Dmitry Solovev (FLNR)*
11:05	The status of development of the S3 Super-Separator-Spectrometer and the commissioning of its target station	Christelle Stodel (GANIL)
11:30	Commissioning with beam of Advanced Demonstrator, the first cryogenic module of HELIAC	Maksym Miski-Oglu (GSI)
11:55	Towards Element 116 (Lv) Chemistry Experiments: The Status of the new Universal High-Density Gas Stopping Cell (UniCell)**	Jochen Ballof (GSI)
12:15	Lunch	
	Chemistry (Part 2)	Chair: Qin Zhi (IMP, Lanzhou)
13:10	Theoretical studies of adsorption properties of group 15, 16 and 17 elements, Bi/Mc, Po/Lv and At/Ts, on surfaces of gold and quartz	Valeria Pershina (GSI)
13:35	Single-atom thallium studies on quartz surfaces**	Felix Sprunk (JGU)
13:55	Liquid-Phase Chemistry of SHE Homologues at the CTU Prague	Pavel Bartl (CTU Prague)
14:20	Break	
	Nuclear reactions and fission (Part 2)	Chair: Y. Aritomo (Kindai Univ.)
14:30	Fission modes towards the island of stability**	Pia Setaro (Naples Univ.)
14:50	Analysis of kinetic energy dissipation by collision angle in multi-nucleon transfer reactions**	Kohta Nakajima (Kindai Univ.)
15:10	Verification of the mechanism for synthesizing a doubly magic superheavy nucleus**	Kosuke Kawai (Kindai Univ.)
15:30	Coffee Break	
	News from Recoil-Separator Laboratories (Part 4)	Chair: Patrick Steinegger (PSI/ETH Zürich)
15:50	SIRIUS (Spectroscopy and Identification of Rare Isotopes Using S3) at GANIL	Armand Bahini (GANIL)
16:15	Update on the AGGIE Gas-Filled Separator at Texas A&M University	Charles M. Folden III (Texas A&M Univ.)*
16:40	Functionalized Detectors for Superheavy Element Homolog Chemistry Experiments**	Amelia S. Kirkland (Texas A&M Univ.)*
17:00	A New Era of Experimental SHE Chemistry at LBNL	Jennifer Pore (LBNL)*
17:25	Closing remarks Ch. E. Düllmann (JGU / GSI / HIM), A. Yakushev (GSI), J. Khuyagbaatar (GSI), J. Ballof (GSI)	
17:30	End	

* Contributions are expected to be presented via ZOOM

** The contributions marked this way comprise 15 minutes presentation + 5 minutes discussion time, the unmarked contributions 20 minutes + 5 minutes discussion time