

EMMI workshop: New avenues for the low-energy NUSTAR program at GSI-FAIR

Th. 16.09.21		Speaker	Topic
Session 1		Chair	W. Korten
09:00	00:15	P. Giubellino	Welcome and Scope of the Workshop
09:15	00:30	W. Barth	Existing and future (heavy) ion linear accelerators at GSI and FAIR
09:45	00:30	HJ Wollersheim	History of gamma spectroscopy experiments at UNILAC
10:15	00:20	S. Kraft-Bermuth	Experiments with microcalorimeters for heavy ions at the UNILAC – Status and Perspectives
10:35	00:20	E. Vardaci	MNT reactions studies with a kinematic TOF method

10:55	00:30	coffee break	
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Session 2		Chair	N. Kalantar
11:25	00:30	G. Martinez-Pinedo	r-process nucleosynthesis in neutron star mergers
11:55	00:30	I. Dedes	Exotic Shape Instabilities in Pb Nuclei: Tracing Unexpected Symmetries
12:25	00:30	V. Saiko	Synthesis of neutron-enriched nuclei near closed neutron shells N=126, 152, 162

12:55	01:15	lunch break	
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Session 3		Chair	D. Rudolph
14:10	00:30	H. Albers	Probing the structure of 208Pb and 178Hf with UNILAC beams
14:40	00:30	M. Gorska	Spin gap isomers as a tool to study proton-neutron interaction and the single particle structure of doubly-magic nuclei.
15:10	00:20	L. Sarmiento	Spectroscopy opportunities with the Lundium decay station
15:30	00:20	R. Palit	Nuclear structure study with light particle tagging

15:50	00:30	coffee break	
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Session 4		Chair	A. Karpov
16:20	00:25	W. Loveland	Overview of multinucleon transfer reactions
16:45	00:20	M. Brodeur	The N=126 factory at ANL
17:05	00:20	Z. Favier	MNT experiment carried out at Argonne: $^{136}\text{Xe}+^{238}\text{U}$ at 0°
17:25	00:30	T. Dickel	Future plans MNT reactions at GSI/FAIR
17:55	00:15	R. de Groote	Opportunities for laser spectroscopy with MNT reaction products

18:30		Reception	
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Fr. 17.09.21		Speaker	Topic
Session 5		Chair	A. Bruce
09:00	00:30	K. Wimmer	Shape coexistence and nuclear radii: Conversion electron spectroscopy with Miniorange spectrometers
09:30	00:20	D. Kumar	Investigation of Rare-Earth peak of r-process via mass measurements of Multi-Nucleon Transfer reaction products
09:50	00:20	A. Zadornaya	Science program and recent progress of MNT reaction studies at IGISOL
10:10	00:30	Z. Chen	Investigation of neutron-rich isotopes around N=126 using chemical separation methods

10:40	00:20	coffee break	
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Session 6		Chair	D. Ackermann
11:00	00:30	P. Walker	n-rich high-K isomers in the hafnium region
11:30	00:20	A. Stuchbery / G. Georgiev	Is in-beam spectroscopy feasible at the Unilac? Precise g factor and transition probability studies.
11:50	00:20	P. Reiter	Ground state properties from post-transition metals to actinides and their applications in beyond standard model searches
12:10	00:20	O. Hall	beta-delayed fission studies utilising Multi-Nucleon-Transfer Reactions

12:30	01:00	lunch break	
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Session 7		Chair	C. Scheidenberger
13:30	00:15	T. Dickel	Summary presentation
13:45	00:45		Discussion: how to move forward
14:30			End of Workshop

all times CEST, local german time