

Program IRIS 10

TIME	TOPIC	Speaker
09:00	Welcome	K. Langanke (GSI)
	Introduction, Idea, General Scope	Ch.E. Düllmann (GSI)
	Structure of the workshop	J. Dvorak (HIM)
	Physics case / theory	Chair: tba
09:30	The r-process process production of heavy elements	G. Martinez-Pinedo (GSI)
09:50	Second wind in study of heavy ion damped collisions	V. Zagrebaev (JINR)
10:10	Neutron Rich Nuclei via Multinucleon Transfer Reactions	G. Pollarolo (Univ. Torino & INFN)
10:30	Coffee Break	
	Status: Relevant Experiments	Chair:
10:50	Multi-nucleon transfer basics	J.V. Kratz (Univ. Mainz)
11:10	Actinide production in $^{238}\text{U} + ^{238}\text{U}$ (^{248}Cm) multinucleon transfer reactions revisited	M. Schädel (GSI)
11:30	Synthesis of below-target, neutron-rich nuclides in ^{136}Xe induced reactions	M. Schädel (GSI)
11:50	Nucleon transfer reactions induced by $A < 50$ projectiles	A. Türler (PSI & Univ. Bern)
12:10	Photo	
12:30	Lunch Break	
	Existing Transfer Product Separators	Chair:
13:15	The gas-filled recoil separator RITU, an Inelastic Reaction Isotope Separator?	J. Uusitalo (Univ. Jyväskylä)
13:35	VAMOS - Spectrometer for Binary Reaction Products	M. Rejmund (GANIL)
13:55	A new gas-filled mode for the large-acceptance spectrometer VAMOS	Ch. Schmitt (GANIL)
14:15	The PRISMA spectrometer: what we learned so far - <i>talk cancelled</i>	L. Corradi (LNL)
14:35	A Large Acceptance Spectrometer for Deep-Inelastic Scattering with re-accelerated Radioactive Beams - <i>talk cancelled</i>	G. Souliotis (Univ. Athens)
14:55	The HELIOS spectrometer at Argonne	B. Back (Argonne)
15:15	Spectrometers TWINSOL, BIGSOL	F. Becchetti (Univ. Michigan)
15:35	Coffee Break	
16:00	<p>Panel Discussion: Concepts for a dedicated heavy element multi-nucleon transfer product separator</p> <ul style="list-style-type: none"> • Scientific motivation • <i>Sophie Heinz, GSI: Heavy Elements from Transfer → Present Status</i> • Wanted products and choice of reactions • Most promising designs • Solenoid x dipole, vacuum x gas-filled, superconducting magnets? • Collection & Detection: Buffer gas cell, RTC + gas-jet/chemistry, Si detectors + TOF, Mass measurements • Next steps 	
17:50	Concluding remarks	
18:00	End	
19:00	Dinner at Restaurant "Weißer Schwan" (optional)	