

TASCA 15

GSI, Darmstadt, October 23, 2015
14th Workshop on
Recoil Separator for Superheavy Element Chemistry



supported by the Helmholtz Institute Mainz (HIM) and the JAEA ASRC's Reimei program

Final Program

October 22, 2015

TIME	TOPIC
19:00	Optional: Dinner at "Bürgermeister-Pohl-Haus", Wixhausen (registration required)

October 23, 2015 (Location: KBW Lecture Hall, GSI)

TIME	TOPIC	Speaker
09:00	Welcome	T. Stöhlker, Research director of GSI
	Scientific highlights from gas-filled (and other) separators ♦	Chair: A. Türler (PSI/Bern)
09:10	Status and perspectives of SHE syntheses at RIKEN GARIS	H. Haba (RIKEN)
09:35	First ionization potential measurement of heaviest actinides	T. Sato (JAEA, Tokai)
10:00	First observation of an atomic level for the element nobelium	M. Laatiaoui (HIM, Mainz)
10:25	Coffee	
10:45	Status on the chemical investigations of flerovium at TASCA	L. Lens (Univ. Mainz)
11:10	MARA, a new in-flight recoil separator for nuclear spectroscopy	J. Uusitalo (JYFL)
11:35	New short-lived ^{221}U and the mass-surface ear $N = 126$	J. Khuyagbaatar (HIM/GSI)
12:00	Enhanced fission stability of K isomers in superheavy nuclei: the case of ^{254}Rf	H. David (GSI)
12:25	Lunch	
13:15	Workshop Photo	
	Detector developments *	Chair: R.-D. Herzberg, Liverpool
13:30	Diamond detectors, TI adsorption on quartz and E113	P. Steinegger (PSI)
13:50	Point-like contact Ge detectors for high resolution γ -spectroscopy	L. Harkness-Brennan (Univ. of Liverpool)
14:10	Opportunity with the new ALBEGA multi-coincidence detector	A. Di Nitto (Univ. Mainz)
14:30	Testing of the new SHIP focal plane detector system	A. Mistry (HIM, Mainz)
14:50	Coffee	
	(Old and) new avenues and technical developments for SHE *	Chair: M. Schädel, GSI
15:10	Realistic modeling for in-flight gas-filled recoil separators	J. Sarén (JYFL)
15:30	Radiochemical Investigation of the kinematics of multi-nucleon transfer reactions in $^{48}\text{Ca} + ^{248}\text{Cm}$ collisions at $1.1 \times B$	M. Götz (Univ. Mainz)
15:50	Carbonyl chemistry developments for SHE studies	A. Türler (PSI)
16:10	Towards Cn and Fl selenides: unexpected Cn-Se bond formation	N.M. Chiera (PSI)
16:30	Fundamentals of He future gas stopping cell for online measurements at TASCA	S. Götz (HIM, Mainz)
16:50	Development of a rapid solvent extraction apparatus for aqueous chemistry of the heaviest elements	Y. Komori (RIKEN)
17:10	Closing remarks	
17:15	End of TASCA 15 workshop	

♦ 15 minutes presentation plus 10 minutes discussion time

* 15 minutes presentation plus 5 minutes discussion time