Sunday, 29 May 2011

17:00 – 21:00 Registrationfrom 18:30 *BUFFET SUPPER / informal get together*

20:00 – 20:45 Jan Peter Toennies Some old and new ideas about quantum fluid clusters

Monday, 30 May 2011

12:30	Conference Photo (in th	e front of the Physikzentrum)
12:15 – 12:30	Klaus von Haeften	The electronically excited states of helium clusters investigated by time- resolved fluorescence spectroscopy
11:30 – 12:15	Franco Gianturco	Microstructural effects in confined bosonic helium: lonic and neutral dopants in small droplets
10:45 – 11:30	David Chandler	Atoms and molecules that aren't quite collisionally cooled
10:15 – 10:45	COFFEE BREAK	
9:45 – 10:15	Kevin Lehmann	Helium nanodroplets for study of chemical reactions of importance in astrochemistry
9:00 – 9:45	William Stwalley	Collision dynamics in cold environments
8:45 – 9:00	Ernst Dreisigacker	About the Wilhelm and Else Heraeus Foundation
8:30 - 8:45	Wolfgang Ernst	Welcome and opening remarks
7:30	BREAKFAST	

12:35 *LUNCH*

Monday, 30 May 2011

14:00 – 14:45	Carlo Callegari	Spectroscopy in He nanodroplets, from microwaves to soft X-rays
14:45 – 15:00	Robert Hinde	Solvation in helium nanodroplets: The role of three-body interactions
15:00 – 15:45	Giorgio Benedek	Localized collective excitations in helium nanodroplets probed by chromophore optical transitions
15:45 – 16:15	COFFEE BREAK	
16:15 – 17:00	Robert Zillich / Alexandra Viel	Dynamics of atoms and molecules in helium
17:00 – 17:15	Marcel Drabbels	Evidence of an unusual Rydberg system: A positively charged helium nanodroplet with orbiting electron
17:15 – 17:30	Florian Lackner	Experimental investigation of <i>n</i> S, <i>n</i> P and <i>n</i> D Rydberg series of Cs atoms on helium nanodroplets
17:30 – 18:15	Marius Lewerenz	Quantum simulations of helium with charged and open shell dopants
19:00	CONFERENCE DINNER	7
	Followed by a posial ave	ning on invitation

Followed by a social evening on invitation of the Wilhelm and Else Heraeus Foundation in the Physikzentrum

Tuesday, 31 May 2011

7:30	BREAKFAST	
8:30 – 9:15	Gerard Meijer	Taming molecular beams
9:15 – 10:00	Frédéric Merkt	Electronically excited cold molecules
10:00 – 10:15	Discussion	
10:15 – 10:45	COFFEE BREAK	
10:45 – 11:30	Martina Havenith	Rock and Roll at 0.37 K
11:30 – 11:45	Friedrich Huisken	Oxidative reactions of group IIA and IIIA elements in helium droplets
11:45 – 12:30	Nadine Halberstadt	Dynamics of doped helium droplets: New method and new results
12:30	LUNCH	

Tuesday, 31 May 2011

14:00 – 14:45	Josef Tiggesbäumker	Strong field ionization of xenon clusters in helium droplets: From systematic studies to control
14:45 – 15:00	Nikolai Kryzhevoi	Strong impact of helium atoms on the relaxation dynamics of their ionized neighbors: From dimers to nanodroplets
15:00 – 15:45	Paul Scheier	lon chemistry in doped He nanodroplets
15:45 – 16:15	COFFEE BREAK	
16:15 – 17:00	Frank Stienkemeier	Helium droplets and other cryogenic matrices: Properties and short time dynamics
17:00 – 17:15	Markus Koch	Electron spin resonance on helium nanodroplets as diagnostic tool for magnetic properties and spin dynamics
17:15 – 18:00	Manuel Barranco	Desorption of alkali atoms from ⁴ He nanodroplets
19:00	DINNER	

20:00 **Poster session and discussion**

Wednesday, 1 June 2011

7:30	BREAKFAST	
8:30 – 9:15	Andrey Vilesov	Helium droplet experiments: From nano- to micro-droplets
9:15 – 10:00	Vitaly Kresin	Evaluation of critical sizes for the submersion of alkali clusters into liquid helium; state densities of droplet bulk and surface excitations
10:00 – 10:15	Marcel Mudrich	Femtosecond spectroscopy of alkali (K,Rb) trimers and picosecond spectroscopy of RbHe exciplexes formed on He nanodroplets
10:15 – 10:45	COFFEE BREAK	
10:45 – 11:30	Jean-Michel Mestdagh	Dynamics of highly excited barium atoms deposited on large argon clusters
11:30 – 11:45	Takamasa Momose	Methane in He nanodroplets: A probe of the dynamical response of superfluid
11:45 – 12:30	Wolfgang Jäger	Spectroscopy of hydrogen peroxide embedded in helium nanodroplets
12:30	LUNCH	

Wednesday, 1 June 2011

14:00 – 14:45	Alkwin Slendczka	Electronic spectroscopy and photochemistry of molecules doped into superfluid helium nanodroplets: Prospects and limitations
14:45 – 15:00	Frank Filsinger / Gert von Helden	Proteins in the fridge: Embedding biomolecular ions in liquid helium droplets
15:00 – 15:45	Wei Kong	Structures of biological molecules in superfluid helium droplets: Spectroscopy and diffraction
15:45 – 16:00	Gary Douberly	Rovibrational spectroscopy of aluminum carbonyl clusters in helium nanodroplets
16:00	Discussion, concluding	g remarks and poster awards

End of the seminar and departure

18:30 DINNER for participants leaving on Thursday morning (public holiday in Germany: Christi Himmelfahrt / Ascension Day)