

Program

Sunday, 18 March 2012

17:00 – 21:00 Registration

18:00 *DINNER*

Monday, 19 March 2012

07:30 *BREAKFAST*

08:30 – 08:45 Wilfried Nörtershäuser **Welcome and opening remarks**
Thomas Neff

08:45 – 09:00 Ernst Dreisigacker **About the Wilhelm and Else Heraeus Foundation**

09:00 – 09:45 Ingo Sick **Radii from electron scattering**

09:45 – 10:30 Gordon Drake **Nuclear sizes from atomic isotope shifts: an overview**

10:30 – 11:00 *COFFEE BREAK*

11:00 – 11:45 Björn Jonson **Experiments with halo nuclei**

11:45 – 12:30 Hans Feldmeier **Nuclear structure and reactions from an ab initio perspective**

12:30 **Conference Photo** (in the front of the Physikzentrum)

12:40 *LUNCH*

Program

Monday, 19 March 2012

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|---------------|--------------------------|--|
| 14:00 – 14:45 | Hartmut Wittig | Hadron Structure from lattice QCD |
| 14:45 – 15:30 | Michael O. Distler | The radius of the proton from MAMI challenges and implications |
| 15:30 – 16:00 | <i>COFFEE BREAK</i> | |
| 16:00 – 16:45 | Ulf G. Meißner | Nuclear Physics from Lattice Simulations |
| 16:45 – 17:30 | Jochen Walz | Precision experiments with antihydrogen, antiprotons, and protons |
| 17:30 – 18:15 | Robert Roth | Ab initio nuclear structure with chiral NN+3N hamiltonians |
| 19:00 | <i>CONFERENCE DINNER</i> | |

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

Program

Tuesday, 20 March 2012

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Paul Indelicato	QED calculations for muonic hydrogen
09:45 – 10:30	Randolf Pohl	Muonic hydrogen spectroscopy
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Krzysztof Pachucki	Hydrogen and beyond: prospects for absolute determinations of nuclear charge radii
11:45 – 12:30	Thomas Udem	Towards laser spectroscopy on He⁺
12:30	<i>LUNCH</i>	
14:00 – 14:45	Isao Tanihata	Charge changing cross sections and proton distribution radii of neutron rich nuclei
14:45 – 15:30	Robert Wiringa	Nuclear quantum Monte Carlo
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:45	Zong-Chao Yan	Atomic theory of few-electron systems for nuclear charge radii determination
16:45 – 17:30	Peter Müller	Charge radii of light nuclei from helium to boron
17:30 – 18:15	Sonia Bacca	Accurate calculation of light nuclei with hyperspherical harmonics
18:15	<i>DINNER</i>	
19:30 – 21:00	Poster session	

Program

Wednesday, 21 March 2012

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Maxim Brodeur	Precision mass measurements of halo nuclei
09:45 – 10:30	Rodolfo M. Sánchez	Nuclear Charge Radius of Lithium-11
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Christian Forssén	Light nuclei in the no-core shell model
11:45 – 12:30	Rainer Neugart	Moments of lithium and beryllium halo nuclei measured with β-NMR
12:30 – 12:40	Poster award	
12:40	<i>LUNCH</i>	
14:00 – 14:45	Takayuki Myo	Halo formation in ^{11}Li: The role of pairing and tensor correlations
14:45 – 15:30	Yasuyuki Suzuki	Application of explicitly correlated Gaussians to nuclear structure and reactions: Four-nucleon case, ^4He
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:45	Christopher Geppert	Nuclear charge radius of beryllium isotopes
16:45 – 17:30	Michiharu Wada	Ion trap laser spectroscopy of radioactive Beryllium isotopes and future of SLOWRI
17:30	Closing remarks	
End of the seminar		
18:00	<i>DINNER for participants leaving on Thursday morning</i>	