

12th Topical Workshop of the Stored Particles Atomic Physics Research Collaboration

Fodele Beach Hotel, Fodele, Crete

Preliminary Program

Tuesday, September 22nd

18:00	Welcome and Dinner	
-------	--------------------	--

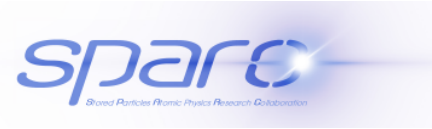
Wednesday, September 23rd

Time	Title	Speaker	Duration
SPARC and FAIR			
09:00	Registration		60`
10:00	Welcome	Theo Zouros University of Crete	10`
10:10	SPARC overview	Reinhold Schuch University of Stockholm	20` + 5`
10:35	Current status of FAIR	Thomas Stöhlker GSI & HI-Jena	30` + 5`
11:10	Coffee Break		
11:40	New results from Penning trap experiments on highly charged ions and antiprotons	Wolfgang Quint GSI	45` + 5`
12:30	Lunch break		
15:00	Zeeman splitting in boron-like ions: g-factor and non-linear effects	Dmitry Glazov University of St. Petersburg	25` + 5`
15:30	Quantum gas target	Bastian Höltkemeier University of Heidelberg	25` + 5`
16:00	The ALPHATRAP Experiment	Andreas Weigel MPIK Heidelberg	25` + 5`
16:30	Coffee Break		
Status of the SPARC Facilities			
17:00	CRYRING@ESR	Michael Lestinsky GSI	25` + 5`
17:30	APPA Cave	Angela Bräuning-Demian GSI	25` + 5`
18:00	HESR	Dieter Prasuhn FZ Jülich	25` + 5`
19:00	Dinner		

Thursday, September 24th

Time	Title	Speaker	Duration
9:00	Astrophysics experiments in storage rings	Yuri Litvinov GSI & Univ. Heidelberg	25`+5`
9:30	High Precision X-Ray Spectroscopy at the ESR	Tobias Gassner HI-Jena	25`+5`
10:00	High Resolution X-ray Spectrometer	Darius Banas University of Kielce	25`+5`
10:30			
11:00	Capture of atomic electron into low-energy continuum states of highly charged ion in relativistic collisions	Oleg Andreev University of St. Petersburg	25`+5`
11:30	Relativistic calculations of x-ray emission following Xe/Bi ⁸³⁺ collisions	Yury Kozhedub University of St. Petersburg	25`+5`
12:00	Low-energy ion collisions	Alexandre Gumberidze GSI and Univ. of Frankfurt	25`+5`
12:30	Lunch break		
15:00	Electron-collision spectroscopy of highly charged ions at ESR and CRYRING	Stefan Schippers University of Giessen	25`+5`
15:30	Experiments with the electron target of the CRYRING	Carsten Brandau University of Giessen	25`+5`
16:00	Isotope Shifts of the Energy Levels in Highly Charged Ions	Natalia Zubova University of St. Petersburg	25`+5`
16:30	Coffee Break		
17:30	High accuracy measurements of transition energies in Highly Charged Ions with a Double-Crystal Spectrometer	Jorge Machado LIBPhys-UNL and LKB	25`+5`
17:00	Laser spectroscopy experiments at HITRAP and CRYRING	Zoran Andelkovic, GSI	25`+5`
Collaboration Meeting			
18:00	Topics: Funding Situation, International and National, Common Funds, Status Reports	Reinhold Schuch	
19:00	Dinner		

Friday, September 25th



Time	Title	Speaker	Duration
9:00	Resonant Coherent Excitation	Angela Bräuning-Demian GSI	25`+5`
9:30	High photon flux narrowband XUV sources for laser spectroscopy of highly-charged ions	Jan Rothhardt HI-Jena	25`+5`
10:00	SPARC detectors and polarimetry: New results from PETRAIII	Günter Weber HI-Jena	25`+5`
10:30	Coffee Break		
11:00	Helmholtz beamline	Vincent Bagnoud GSI	25`+5`
11:30	Gamma and Laser beam induced nuclear and atomic physics at ELI-NP	Septimiu Balascuta ELI-NP, Bucharest	25`+5`
12:00	TBA	Abel Blazevic GSI	25`+5`
12:30	Lunch break		
15:00	Internal Target at CRYING	Nikos Petridis GSI	25`+5`
15:30	Setup of a high-resolution fluorescence spectrometer for experiments at ion storage rings	Philipp Reiss University of Kassel	25`+5`
16:00	Highly charged ions impact, a promising route to exploit the refrigeration power of giant magnetocaloric thin films	Martino Trassinelli CNRS, INSP	25`+5`
16:30	Coffee Break		
16:45	Highly charged ions in search towards the variation of fundamental constants	Natalia Oreshkina MPIK Heidelberg	25`+5`
17:15	TBA	Cholakka P. Safvan IUAC, New Delhi	25`+5`
17:45	Poster session with coffee		
20:00	Conference dinner		

Saturday, September 26th

Time	Title	Speaker	Duration
09:00	Auger electron yields of metastable Li-like projectile states repopulated by radiative cascades and Auger depletion	Emmanouil Benis University of Ioannina	25`+5`
09:30	The magnetic toroidal sector: a broad-band electron-positron pair spectrometer	Siegbert Hagmann GSI	25`+5`
10:00	X-ray emissions from the decay of highly charged ions via overlapping resonances	Zhongwen Wu HI-Jena	25`+5`
10:30	Coffee Break		
International Landscape: Atomic Physics Activities Related to SPARC / Experimental facilities of relevance for SPARC related R&D			
11:00	DESIREE	Henning Schmidt University Stockholm	25`+5`
11:30	CSR	Robert von Hahn MPIK Heidelberg	25`+5`
12:00	Status of the FISIC Project	Dominique Vernhet CNRS, UPMC, INSP	25`+5`
12:30	Lunch		
14:00	Excursion		
End of Workshop			