



<http://isiac-2007.physics.uoc.gr>

## Program of talks and events

All talks will take place at the conference center at **Mirabello Beach Hotel**.

Indication: (R) Reviews (25'), (S) SPARC presentations (20') and (P) Progress reports (15') with an extra 5' allowed for discussion.

All other accepted contributions will appear as posters.



### Wednesday afternoon August 1, 2007

18:00	20:00	<b>Registration (Mirabello Beach Hotel – Conference Center)</b>
21:00	22:30	<b>Welcome reception - Mirabello Beach Hotel Pool Bar</b>



## Thursday morning August 2, 2007 (Mirabello Beach Conference Center)

From	To	Speaker		Title
8:00	8:45	Registration - outside lecture hall		
8:45	8:50	Welcome		
<b>8:50</b>	<b>10:50</b>	<b>Ion interactions with solids and surfaces (chair: Uwe Thumm)</b>		
8:50	9:15	<b>N. Stolterfoht</b> (HMI-Berlin - 25')	<b>R1</b>	<i>HCI collisions with surfaces: A tribute to the legacy of HP Winter</i>
9:20	9:35	<b>D. Mitnik</b> (Univ. Buenos Aires - 15')	P1	<i>Time-dependent simulations of electron emission in grazing ion-surface collisions</i>
9:40	9:55	<b>S. Das</b> (Western Michigan Univ.- 15')	P2	<i>Electron guiding in polymer PET foils</i>
10:00	10:15	<b>Z. Juhasz</b> (ATOMKI-Debrecen - 15')	P3	<i>Ion-insulator interactions inside ion-guiding nanocapillaries</i>
10:20	10:45	<b>T. Azuma</b> (Tokyo Metropolitan Univ.- 25')	<b>R2</b>	<i>Crystal-dressed HCI observed through doubly-resonant coherent excitation</i>
10:50	11:20	<b>30' Coffee Break</b>		
<b>11:20</b>	<b>13:30</b>	<b>Ion interactions with atoms (chair: Burkhard Fricke)</b>		
11:20	11:45	<b>M. Schulz</b> (Univ. of Missouri-Rolla - 25')	<b>R3</b>	<i>Fully differential measurements on ion-atom collisions</i>
11:50	12:05	<b>K-U. Kühnel</b> (MPIK-Heidelberg -15')	P4	<i>First experiments with the in-ring reaction-microscope in the ESR at GSI</i>
12:10	12:25	<b>X. Zhu</b> (IMP- Lanzhou - 15')	P5	<i>State-selective differential cross sections for keV He<sup>2+</sup> ions on He collisions studied by COLTRIMS</i>
12:30	12:45	<b>M. Schöffler</b> (Univ. Frankfurt - 15')	P6	<i>Two- and three-electron dynamics in transfer ionization</i>
12:50	13:05	<b>N. de Castro Faria</b> (Univ. Federal do Rio de Janeiro- 15')	P7	<i>Electron detachment of anions by atoms and molecules</i>
13:10	13:25	(15')		presentations and bids for the next ISIAC 2009
13:30	14:30	<b>60' Lunch break</b>		



## Thursday afternoon August 2, 2007 (Mirabello Beach Conference Center)

14:30	16:00	<b>Poster session</b>	90' Poster exhibition at Hotel Mirabello
16:00	18:40	<b>Excursion to the island of Spinalonga</b>	
16:00	16:10	Bus from Mirabello Hotel entrance	
16:10	16:30	Drive to Elounda port	
16:30	17:00	Boat to Spinalonga	
17:00	18:00	Tour of Spinalonga fortress	
18:00	18:20	Return to Elounda	
18:20	18:40	Return to Mirabello Beach Hotel	
<b>21:00 – 22:00 Discussion on the future of ISIAC</b>			
<b>Free evening to explore the town of Agios Nikolaos and surrounding area</b>			



## Friday morning August 3, 2007 (Mirabello Beach Conference Center)

From	To	Speaker		Title
<b>8:50</b>	<b>11:00</b>	<b>Ion and antiproton interactions with matter (chair: Joe Macek)</b>		
8:50	9:15	<b>J. Miraglia</b> (Univ. Buenos Aires - 25')	<b>R4</b>	<i>Multiple ionization of atoms by heavy ions.</i>
9:20	9:35	<b>H. Torii</b> (Univ. of Tokyo - 15')	P8	<i>Atomic collision experiments with ultra slow antiprotons</i>
9:40	9:55	<b>B. Najjari</b> (MPIK-Heidelberg - 15')	P9	<i>Doubly inelastic collisions with relativistic heavy ions and target recoil momentum spectroscopy</i>
10:00	10:15	<b>P. Moretto-Capelle</b> (Univ. Toulouse - 15')	P10	<i>Electron emission and fragmentation of DNA/RNA components induced by proton impact</i>
10:20	10:35	<b>U. Kadhane</b> (Univ. Aarhus - 15')	P11	<i>Multiple ionization of C<sub>60</sub> in fast ion collisions and giant plasmon resonance</i>
10:40	10:55	<b>T.-G. Lee</b> (Oak Ridge National Laboratory -15')	P12	<i>Quantum treatment of continuum electrons in time-dependent fields</i>
<b>11:00</b>	<b>11:30</b>	<b>30' Coffee Break</b>		
<b>11:30</b>	<b>13:30</b>	<b>Ion interactions with molecules and plasmas (chair: Carmen Cisneros)</b>		
11:30	11:55	<b>M. Shah</b> (Queen's Univ. Belfast - 25')	<b>R5</b>	<i>Fragmentation of water near the Bragg peak</i>
12:00	12:15	<b>A. Dubois</b> (U. P & M Curie-Paris -15')	P13	<i>Interference phenomena in ion-molecule collisions</i>
12:20	12:35	<b>S. Otranto</b> (Univ. Bahia Blanca - 15')	P14	<i>Electron capture collisions relevant to X-ray emission from comets</i>
12:40	12:55	<b>A. Kumar</b> (GSI-Darmstadt - 15')	P15	<i>Selective population of 1s2s states after K-shell ionization of lithiumlike heavy ions</i>
13:00	13:25	<b>J. Schweinzer</b> (IPP-Garching 25')	<b>R6</b>	<i>Atomic collision processes in plasmas of ASDX Upgrade, JET and ITER</i>
<b>13:30</b>	<b>15:00</b>	<b>90' Lunch break</b>		



## Friday afternoon August 3, 2007 (Mirabello Beach Conference Center)

From	To	Speaker		Title
<b>15:00</b>	<b>17:10</b>	<b>Interaction with cold trapped atoms and ions (chair: Brett DePaola)</b>		
15:00	15:25	<b>N. Andersen</b> (Niels Bohr Institute - 25')	<b>R7</b>	<i>MOTRIMS: Ion-atom collision processes investigated with a laser cooled target</i>
15:30	15:45	<b>G. Veshapidze</b> (Kansas State U. - 15')	P16	<i>Charge transfer as a diagnostic of excitation dynamics in a MOT</i>
15:50	16:05	<b>S. Götz</b> (Univ. Freiburg - 15')	P17	<i>Ultra cold molecule formation using shaped femtosecond pulses</i>
16:10	16:25	<b>J. Steinmann</b> (MPIK-Heidelberg - 15')	P18	<i>A Lithium MOT in a reaction Microscope: a new Target for particle and Photon Impact experiments</i>
16:30	16:45	<b>A. de Brito</b> (LNLS-Campinas - 15')	P19	<i>Synchrotron based photoelectron anisotropy determination on laser cooled and trapped atoms</i>
16:50	17:05	<b>X. Flechard</b> (Univ. Basse Normandie - 15')	P20	<i>Tests of the Standard Model with trapped and cooled radioactive ions using a transparent Paul trap</i>
<b>17:10</b>	<b>17:40</b>	<b>30' Coffee Break</b>		
<b>17:40</b>	<b>19:30</b>	<b>Interaction with Lasers (chair: Jan Petter Hansen)</b>		
17:40	18:05	<b>A. Alnaser</b> (American Univ. Sharjah - 25')	<b>R8</b>	<i>Double electron removal from H<sub>2</sub> by intense short laser pulses</i>
18:10	18:25	<b>K. Carnes</b> (Kansas State Univ. - 15')	P21	<i>Picosecond Ion Pulses from an EN Tandem Created by a Femtosecond Ti:Sapphire Laser</i>
18:30	18:45	<b>Y. Jiang</b> (MPIK-Heidelberg - 15')	P22	<i>Two-photon double ionization of atoms at FLASH</i>
18:50	19:05	<b>L. Menchero</b> (TU-Clausthal - 15')	P23	<i>Ionization of HeH<sup>2+</sup> quasimolecule by interaction with short strong laser pulses</i>
19:10	19:25	<b>S. Selstø</b> (Univ. of Stockholm - 15')	P24	<i>Photoionization of H<sub>2</sub><sup>+</sup> by short intense laser pulses</i>
<b>20:00</b>	Bus from Mirabello Hotel entrance		<b>Conference Dinner – GORGONA fish tavern - Plaka</b>	

**Saturday morning August 4, 2007 (Mirabello Beach Conference Center)****SPARC topical meeting: Electron spectrometry in the NESR**

From	To	Speaker		Title
<b>10:00 11:40 Electron emission in fast high-Z ion-atom collisions (chair: Xinwen Ma)</b>				
10:00	10:20	<b>A. Voitkiv</b> (MPIK- Heidelberg - 20')	<b>S1</b>	<i>Electron and positron emission in energetic heavy ion- and antiproton-atom collisions</i>
10:25	10:45	<b>C. Whelan</b> (Old Dominion Univ. - 20')	<b>S2</b>	<i>Relativistic effects in the electron impact ionization of multicharged ions</i>
10:50	11:10	<b>S. Fritzsche</b> (MPIK & GSI - 20')	<b>S3</b>	<i>Auger electron and X-ray emission from high-Z few-electron ions</i>
11:15	11:35	<b>A. Kumar</b> (GSI-Darmstadt - 20')	<b>S4</b>	<i>High resolution electron spectrometry at the NESR</i>
11:40	12:00	<b>20' Coffee Break</b>		
<b>12:00 14:00 Update on NESR &amp; spectrometers - discussion (chair: John Tanis)</b>				
12:00	12:20	<b>C. Dimopoulou</b> (GSI-Darmstadt - 20')	<b>S5</b>	<i>The New Experimental Storage Ring (NESR) for Atomic Physics: Experiments with Heavy Highly Charged Ions and Deceleration of Antiprotons</i>
12:25	12:45	<b>S. Hagmann</b> (GSI-Darmstadt - 20')	<b>S6</b>	<i>Trends in forward electron spectroscopy at heavy ion storage rings</i>
12:50	14:00	SPARC spectrometer group members		<i>Round table discussion/future plans/organization</i>
<b>14:00</b>	<b>End of meeting</b>			