

22 July 2017, Saturday

17:00-19:00 Registration

18:00-20:00 Welcome Reception

23 July 2017, Sunday

9:00-9:10 Opening, Alisher Kadyrov and Igor Bray

Chair: Roberto Rivarola

9:10-9:40 Dave Schultz, *Solar-wind ion-driven X-Ray emission from cometary and planetary atmospheres*

9:40-10:10 Yuri Ralchenko, *Charge exchange between W^{64+} and H for neutral-beam diagnostics in ITER*

10:10-10:40 Xavier Urbain, *State-to-state measurements of low-energy ion-molecule and ion-ion collisions via 3D momentum imaging*

10:40-11:00 Coffee Break

Chair: Alain Dubois

11:00-11:30 Rafael Garcia-Molina, *Propagation of swift protons in liquid water and generation of secondary electrons in biomaterials*

11:30-12:00 Susanna Guatelli, *Physics models for Monte Carlo simulations in carbon ion therapy*

12:00-12:20 Isabel Abril, *Influence of target excitation models on the radial dose distribution around proton tracks in liquid water*

12:20-12:40 Pavel Terekhin, *Single and multiple-electron removal processes from water molecules by H^+ ion impact*

12:40-13:40 Lunch

Chair: Dave Schultz

13:40-14:10 Friedrich Aumayr, *Interaction of slow highly-charged ions with single-layer graphene*

14:10-14:40 Alain Dubois, *Interferences and imaging in ion impact on 2D materials*

14:40-15:00 Maria Silvia Gravielle, *The interaction of atoms with a LiF(001) surface revisited*

15:00-15:20 Sergiy Bubin, *Born–Oppenheimer and non-Born–Oppenheimer calculations with explicitly correlated gaussians*

15:20-15:40 Coffee Break

Chair: Tom Kirchner

15:40-16:10 Amine Cassimi, *Electron capture in low-energy ion-dimer collisions and ICD*

16:10-16:40 Hyun Kyung Chung, *Data needs of ion-atom collisional processes relevant for fusion applications*

16:40-17:00 Lokesh Tribedi, *Multiple ionization of Coronene ($C_{24}H_{12}$) induced by fast O ions: Large enhancement in double and triple ionization*

17:00-17:20 Marcelo Ciappina, *Time-Dependent Close-Coupling Calculations for Ion-Impact Ionization of Atoms and Molecules*

17:20-18:00 Poster Session

17:30-18:00 Discussion about Code Comparison Workshop (moderator: Hyun Kyung Chung)

24 July 2017, Monday

8:55-9:00 Announcements

Chair: Amine Cassimi

9:00-9:30 Roberto Rivarola, *Young-type interference effects in heavy-ion collisions with diatomic molecules*

9:30-10:00 Markus Schöffler, *Single ionisation of helium by fast proton impact*

10:00-10:20	Jan Müller, <i>Measurements of the kinetic-energy-release (KER) of vibrational cooled HeH⁺ and H₃⁺ at the electrostatic Frankfurt low energy storage ring</i>
10:20-10:40	Joseph Tan, <i>Charge exchange for the production of one-electron ions in Rydberg states stored in a trap</i>
10:40-11:00	Coffee Break
	Chair: Lokesh Tribedi
11:00-11:30	Tom Kirchner, <i>Calculations for ionisation and capture processes in ion-molecule collisions: from relatively small to rather big systems</i>
11:30-12:00	Theo Zouros, <i>Projectile electron spectroscopy: new answers to old questions. Latest results at the new atomic physics beamline in Demokritos, Athens</i>
12:00-12:20	Marek Pajek, <i>Observation of Paschen series X-rays in interaction of slow Xe³⁵⁺ ions with Be foils</i>
12:20-12:40	Iliia Maltsev, <i>Electron-positron pair production in slow ion collisions</i>
12:40-13:40	Lunch and Meeting of the International Advisory Committee
	Chair: Yuri Ralchenko
13:40-14:10	Raul Barrachina, <i>Coherence effects in ionisation of He by fast ion impact</i>
14:10-14:40	Tokihiro Ikeda, <i>Active discharging method for stable transmission of slow highly-charged ions through sub-micron glass capillary</i>
14:40-15:00	Ruitian Zhang, <i>X-ray emission following charge exchange between fully stripped ions and neutrals</i>
15:00-15:20	Ilkhom Abdurakhmanov, <i>Two-centre convergent-close coupling approach to ion-atom collisions</i>
15:20-15:40	Coffee Break
	Chair: Stephan Fritzsche
15:40-16:10	Pedro Luis Grande, <i>Energy-transfer and transport cross sections in dressed electron-ion binary collisions</i>
16:10-16:40	Marcelo Ambrosio, <i>Double ionisation of helium by proton impact: A generalised-Sturmian approach</i>
16:40-17:00	Jackson Bailey, <i>Calculations of differential cross sections for proton-impact ionisation of hydrogen</i>
17:00-17:20	Business Meeting (a bid for ISIAC 2019)
17:20-18:00	Poster Session
19:00-22:00	Conference Dinner

25 July 2017, Tuesday

8:55-9:00	Announcements
	Chair: Theo Zouros
9:00-9:30	Stephan Fritzsche, <i>Relativistic quantum dynamics of ions and atoms</i>
9:30-10:00	Andrey Bondarev, <i>Relativistic calculations of differential ionisation cross sections in ion-atom collisions</i>
10:00-10:20	Rita Prosimi, <i>Modeling the ion-water interactions from first-principle calculations</i>
10:20-10:30	Group Photo
10:30-10:50	Coffee Break
	Chair: Pedro Luis Grande
10:50-11:20	Ladislau Nagy, <i>Wave-packet scattering in intermediate-energy p - He collisions</i>
11:20-11:50	Dalong Guo, <i>New phenomena observed in transfer ionisation at intermediate-energy ion-atom collisions</i>
11:50-12:20	Shaofeng Zhang, <i>Asymmetries in double capture in He²⁺ - CO collisions</i>
12:20-12:30	Closing Remarks, Alisher Kadyrov and Igor Bray
13:00	Transportation to the Cairns Convention Centre