

The new view of comet coma processes after Rosetta: The importance of electrons

Comenius University; Bratislava, Slovakia, May 24 to 26 2017

Wednesday May 24;

19.30 Arrive Social function welcome

Thursday May 25;

Session 1 Data from the Rosetta mission

09.00 to 09.45 **Opening and Introductory talk**

Rosetta observations of electron impact dissociative emission in the coma of 67P
Dennis Bodewits, University of Maryland, USA

09.45 to 10.30 The organics on the nucleus of 67P as revealed by COSAC

Jan Bredehöft, University of Bremen, Germany

10.30 to 11.00 *Coffee*

11.00 to 11.45 Ground based observations of 67P

Colin Snodgrass, The Open University, UK

11.45 to 12.30 Observations of two CMEs inside the 67P comet coma and upstream of the comet

Annie Wellbrock, University College London, UK

12.30 to 13.00 Electron-impact ionization and excitation around comet 67P

Kevin Heritier, Imperial College London

13.00 to 14.00 *Lunch*

14.00 to 14.45 Observing Electron Impact Excitation of Cometary Comae from the Ground

Alan Fitzsimmons, Queens University of Belfast, UK

Session 2 Electron collision processes in cometary environments

14.45 to 15.30 Review of relevant electron processes for comets

Nigel Mason, The Open University, UK

15.30 to 16.15 Electron/molecular cation collisions in comet comas from reactional mechanisms to rate coefficients

Ioan Schneider, University of le Havre, France

16.15 to 16.45 *Tea*

16.45 to 17.30 Electron Induced emission spectra of molecules in the UV-Vis range

Štefan Matejčík, Comenius University, Bratislava, Slovakia

17.30 to 18.00 Electron Collision cross section and resonant states in HNCO

Juraj Fedor, J Heyrovsky Institute of Physical Chemistry, Prague

17.30 to 18.00 Electron-CO vibrational-resolved cross sections

Vincenzo Laporta, University of le Havre, France

19.00 *Workshop dinner*

Friday May 26;

Session 3

09.00 to 09.45 Electron and ion driven processes in cold clusters
Paul Scheier, University of Innsbruck

09.45 to 10.30 Electron attachment to astrophysically relevant molecules
Thomas Field, Queen's University of Belfast, UK

10.30 to 11.00 *Coffee*

11.00 to 11.30 Reactive collisions of electrons with CO and H₂⁺ in cometary coma
Youssef Moulane, University of le Havre, France

11.30 to 12.00 Electron Impact Excitation data for H₂O, N₂O and H₂S triatomic molecules
Bratislav Marinković, Institute of Physics Belgrade, Serbia

12.00 to 12.30 Low energy electron attachment to aminoacetonitrile and cyanamide
Stefan Denifl, University of Innsbruck

12.30 to 13.00 Electronic excitation and neutral dissociation of ground and metastable states of oxygen molecule and electron impact ionisation of metastable states
James Hamilton, University College London and Quantemol ltd, UK

13.00 to 14.00 *Lunch*

Break out Session

14.00 to 15.45 Data needs

15.45 to 16.15 *Tea*

16.15 **Lab tours**