The 18th ADAS Workshop
28-30 September 2014
Regent Warsaw Hotel, Poland

Sunday 28th September
18:00 Evening gathering at hotel

Monday 29th September
09:00 – 09:10 Adjustments and ratification of agenda

Jacek Rzadkiewicz  Welcome on behalf of NCBJ and IFPiLM

09:10 – 10:30 Session 1: Reports from Laboratories

Andrzej Fludra  EUV spectroscopy of the solar atmosphere from the SPICE spectrometer on the Solar Orbiter mission
Andy Meigs  Electron temperature from high-n Balmer series at JET: A question of spectra? Or more?
Stuart Loch  Recent progress on SXBs for complex species and light species excited state ionization calculations for GCR data
Amy Shumack  High-resolution X-Ray diagnostic upgrade for ITER-like wall experiments at JET

10:30 – 11:00 Coffee

11:00 – 12:30 Session 2: Data Handling

Guiyun Liang  Pressure diagnostic for the trap center of Electron Beam Ion Trap by EUV spectroscopy
Simon Preval  Atomic data in NLTE model atmospheres – The case of white dwarf stars
Owen Jones  Empirical model of fast-ion charge exchange emission in MAST
Hanni Lux  Radiation Modelling in DEMO systems studies

12:30 – 14:00 Lunch

14:00 – 15:30 Session 3: Fundamental data (I)

Nigel Badnell  Dielectronic recombination of W^{18+}: Theory vs. Storage ring measurements
Matthew Bluteau  Relativistic R-matrix and Breit-Pauli distorted wave calculations of the electron impact excitation of W^{4+}
Duck-Hee Kwon  Electron-impact ionization of complex atoms and ions
Kanti Aggarwal  Energy levels, radiative rates and lifetimes for Br-like ions with Z ≥ 38

15:30 – 16:00 Coffee
16:00 – 17:00 Session 4: Fundamental data (II)

Luis Manchero  
New atomic data for plasma diagnostics: Be and Mg-like isoelectronic sequences

Ioan Schneider  
Electronic and photonic reactive collisions in edge fusion plasma: Application to H₂, BeH, CH and N₂ systems

Marek Pajek  
X-ray studies of atomic collisions involving highly charged ions

18:00 – 19:00 ADAS steering committee meeting

19:30 Dinner

Tuesday 30th September

09:00 – 10:30 Session 5: Spectroscopy

Kurt Behringer  
Modelling of Lyman and Fulcher Band Spectra – Vibrational and Rotational Population

Dmitry Borodin  
Interpretation of the Be and BeD spectroscopy in the recent plasma-wall interaction experiments

Matthew Carr  
CXRS diagnostics on MAST

Yang Yang  
Spectroscopic results of W¹¹⁺–W¹⁵⁺ in EUV region, observed in the SH-HtscEBIT (Shanghai High-Temperature-Super-Conduct Electron Beam Ion Trap), and relative calculations

Stuart Loch  
Discrepancies in Fe XVII line ratios

10:30 – 11:00 Coffee

11:00 – 12:30 Session 6: A comprehensive and integrated approach to ion impact for ADAS

Hugh Summers/
Martin O’Mullane/
Stuart Henderson  
The bigger picture

Matthew Bluteau  
A new ADAS format and processing for quadrupole transitions induced by ion impact

Alessandra Giunta  
Medium weight elements, fine structure resolved GCR modelling and the role of ion impact

12:30 – 14:00 Lunch

14:00 – 15:30 Session 7: ADAS matters

Martin O’Mullane  
Report on ADAS activities since last workshop

Allan Whiteford  
Moving ADAS infrastructure to python demonstration

16:00 Close of meeting