

**The 18<sup>th</sup> ADAS Workshop**  
**28-30 September 2014**  
**Regent Warsaw Hotel, Poland**

**Sunday 28<sup>th</sup> September**

18:00 Evening gathering at hotel

**Monday 29<sup>th</sup> September**

09:00 – 09:10

Grzegorz Wrochna     *Director General of National Centre for Nuclear Research  
Welcome on behalf of NCBJ and IFPiLM*  
Jacek Rzadkiewicz     *Adjustments and ratification of agenda*

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  $W^{44+}$*   
Duck-Hee Kwon     *Electron-impact ionization of complex atoms and ions*  
Valdas Jonauskas     *Single and double ionization by electron impact*

15:30 – 16:00 Coffee

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

Luis Manchero	<i>New atomic data for plasma diagnostics: Be and Mg-like isoelectronic sequences</i>
Kanti Aggarwal Ioan Schneider	<i>Energy levels, radiative rates and lifetimes for Br-like ions with <math>Z \geq 38</math> Electronic and photonic reactive collisions in edge fusion plasma: Application to <math>H_2</math>, BeH, CH and <math>N_2</math> systems</i>
Marek Pajek	<i>X-ray studies of atomic collisions involving highly charged ions</i>

18:00 – 19:00 ADAS steering committee meeting

19:30 Dinner

## Tuesday 30<sup>th</sup> September

09:00 – 10:30 Session 5: Spectroscopy (I)

Kurt Behringer	<i>Modelling of Lyman and Fulcher Band Spectra – Vibrational and Rotational Population</i>
Dmitry Borodin	<i>Interpretation of the Be and BeD spectroscopy in the recent plasma-wall interaction experiments</i>
Matthew Carr Yang Yang	<i>CXRS diagnostics on MAST Spectroscopic results of <math>W^{11+}</math>-<math>W^{15+}</math> in EUV region, observed in the SH-HtscEBIT (Shanghai High-Temperature-Super-Conduct Electron Beam Ion Trap), and relative calculations</i>
Marek Sadowski	<i>Optical and X-ray emission spectroscopy of high-current pulse discharges of the Plasma-Focus type</i>

10:30 – 11:00 Coffee

11:00 – 11:30: Session 6: Spectroscopy (II)

Jacek Rzadkiewicz	<i>Spectral characteristics and spectra simulations for high-resolution X-Ray diagnostic at JET</i>
Stuart Loch	<i>Discrepancies in Fe XVII line ratios</i>

11:30 – 12:30 Session 7: A comprehensive and integrated approach to ion impact for ADAS

Hugh Summers/ Martin O'Mullane/ Stuart Henderson	<i>The bigger picture</i>
Matthew Bluteau	<i>A new ADAS format and processing for quadrupole transitions induced by ion impact</i>
Alessandra Giunta	<i>Medium weight elements, fine structure resolved GCR modelling and the role of ion impact</i>

12:30 – 14:00 Lunch

14:00 – 15:30 Session 8: ADAS matters

Martin O'Mullane	<i>Report on ADAS activities since last workshop</i>
Allan Whiteford	<i>Moving ADAS infrastructure to python</i>

16:00 Close of meeting