

**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^{44+}*

Duck-Hee Kwon *Electron-impact ionization of complex atoms and ions*

Kanti Aggarwal *Energy levels, radiative rates and lifetimes for Br-like ions with $Z \geq 38$*

15:30 – 16:00 Coffee

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

Luis Manchero	<i>New atomic data for plasma diagnostics: Be and Mg-like isoelectronic sequences</i>
Ioan Schneider	<i>Electronic and photonic reactive collisions in edge fusion plasma: Application to H₂, BeH, CH and N₂ 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 30th September

09:00 – 10:30 Session 5: Spectroscopy

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	<i>CXRS diagnostics on MAST</i>
Yang Yang	<i>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</i>
Stuart Loch	<i>Discrepancies in Fe XVII line ratios</i>

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	<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 7: ADAS matters

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

16:00 Close of meeting