The ADAS Workshop
9-11th December 2018
Physikzentrum, Bad Honnef, Germany

Sunday 9th December

19:00 Social Dinner

Monday 10th December

09:15 – 09:30 Martin O'Mullane
Welcome, introduction of participants and agenda adoption.

Session 1: General reports and new perspectives

09:30 – 10:00 Oleksandr Marchuk
Atom-atom collisions as plasma surface interface as the most natural mirror laboratory and application for ITER

10:00 – 10:30 Peter Bochsler
Application of ADAS data for diagnostics of the solar wind

10:30 – 11:00 Diana Naydenkova
COMPASS-upgrade and possible spectroscopic measurements

11:00 – 11:30 Coffee break

11:30 – 12:00 Adam Foster
Atomic Data requirements for upcoming X-ray missions

12:00 – 12:30 Martin O'Mullane
Intermediate coupling GCR population model

12:30 - 14:00 Lunch

Session 2: Tungsten and molecules

14:00 – 14:30 Stephan Ertmer
High resolving spectroscopy on high Z materials at the linear plasma device PSI-2

14:30 – 15:00 Alina Eksaeva
Validation of the new MS-resolved ADAS dataset for W by ERO2.0 simulation of spectroscopy at PSI-2 linear plasma device

15:00 - 15:30 Stuart Loch
Update on atomic data for neutral W for applications in high-Z PFCs.

15:30 - 16:00 Coffee break

16:00 – 16:30 Ewa Pawelec
Molecular bands in JET plasma - modelling and experimental data
16:30 – 17:00 Ioan Schneider
Electron-driven reactivity of molecular cations: H2+, BeH+, CH+, ArH+ and He2+
17:30 – 18:00 Aleksander Drenik
Ammonia formation in N2-seeded discharges at JET and ASDEX Upgrade

18:15 - 18:45 Steering committee meeting (closed session)

19:00 Dinner

Tuesday 11th December

Session 2: Uncertainty in data and models

09:00 - 09:30 Kerry Lawson
D and He atomic physics data used in the EDGE2D code
09:30 - 10:00 Stuart Loch
Assigning uncertainties on fundamental atomic data
10:00 - 10:30 Simon Preval
Noble-Gas Recombination Rate Coefficients for use in modelling astrophysical, and magnetically confined fusion plasmas
10:30 - 11:00 Rémy Guirlet
tbc

11:00 - 11:30 Coffee break

11:30 – 12:00 Dmitriy Borodin
Atomic and molecular data needed for interpretation of plasma-surface interaction experiments
12:00 - 12:30 Yang Yang
W and Mo spectroscopy of EBIT relevant to Fusion plasma
12:30 - 13:00 Karol Kozioł
Multi-Configuration Dirac-Hartree-Fock and Configuration-Interaction study of 4d-3p x-ray transitions in Cu- and Ni-like tungsten ions relevant to the diagnostic of high-temperature tokamak plasmas

13:00 - 14:30 Lunch

Final session: ADAS matters

14:30 - 15:30 Martin O'Mullane
Update on ADAS codes, new data, OPEN-ADAS and activities

15:30 - 16:30 All
General discussion on the role and future of ADAS/ADAS consortium in fusion.

End of workshop
Depart or Dinner at 19:00

Wednesday 12th December

9:00 Depart for seminar at Forschungszentrum Jülich.
11:00 Stuart Loch
Plasma spectral diagnostics for applications in fusion, astrophysical, and low temperature laboratory environments