

THE ADAS WORKSHOP

10-13 OCTOBER 2007

RINGBERG CASTLE, GERMANY

AGENDA

Ringberg Castle
Schlossstr. 20
D-83700 Rottach-Egern
Germany

Wed. 10 Oct.

14.00 – 18.00	Participants arrive
19.00	Evening meal

A breakfast buffet will be served from 8.00 on the 11th, 12th and 13th of October. The workshop will close on Saturday 13th of October at about 10.00 after informal discussions at breakfast.

Thu. 11 Oct.

08.50-09.00 Adjustments and ratification of the Agenda

1st session
09.00-10.30 Update from the laboratories
Chairperson: K. Behringer

R. Neu (15 min)	The tungsten programme at AUG
D. Hillis (15 min)	Activities at ORNL
A. Kukushkin (15 min)	Atomic physics in ITER modelling
S. Menmuir (15 min)	Studies at KTH
M. Valisa (15 min)	RFX/ENEA studies

Discussion:

10.30 Coffee

2nd session
11.00-12.30 Charge exchange recombination spectroscopy
Chairperson: A. Kallenbach

M. von Hellermann (20 min)	CXRS instrumentation for ITER
C. F. Maggi (15 min)	Experimental test of Ar cross sections and core CXRS at AUG in the presence of W
N. Conway (15 min)	CXRS on MAST
T. Pütterich (15 min)	Fast CXRS measurements at the pedestal
A. Foster (15 min)	Heavy species and CXRS

Discussion:

12.30 Lunch

3rd session
14.00-14.45 Advances in astrophysical observations and modelling
Chairperson: S. D. Loch

A. Lanzafame (15 min)	Developments in dynamic modelling
R. K. Smith (20 min)	Upcoming high resolution missions and their atomic data needs
M. G. O'Mullane (10 min)	GCR calculations for Mg and Fe

Discussion:

4th session
14.45-17.00 Fundamental data production for fusion and astrophysics
Chairperson: E. Rachlew

S. Fritzsche (15 min)	Relativistic effects in heavy and super-heavy elements
C. Illescas (15 min)	Update on CX calculations from UAM
M. Mattioli (15 min)	Update on ionization data up to germanium

15.30 Coffee

S. D. Loch (15 min)	Ionisation cross-sections and ionisation balance
A. D. Whiteford (5 min)	Automated R-matrix calculations – ADAS8#3
V. Stancalie (15 min)	Fundamental calculations at INFPLR
R. Stamm (15 mins)	Line broadening and spectroscopic analysis of light elements

Discussion:

17.00-18.00 Steering Committee Meeting

18.30 Evening meal

Fri. 12 Oct.

1st session Fusion plasma modelling and diagnostics
8.45-10.30 Chairperson: D. Hillis

D. Coster/X. Bonnin/C. Maggi (15 min)	2-D fluid modelling using superstages
L. Lauro-Taroni (15 min)	Working with superstages in transport models
E. Wolfrum (15 min)	Current status of the Li-beam at AUG
O. Marchuk (15 min)	Status of the SXR analysis at TEXTOR
R. Pugno (15 min)	Spectroscopic analysis of the Balmer series
A. G. Meigs (15 min)	Generalised feature fitting using ADAS
A. Pospieszczyk (15 min)	Accuracy of TEXTOR He-beam diagnostics

Discussion:

10.30 Coffee

2nd session Atomic databases
11.00-12.30 Chairperson: M. G. O'Mullane

M. Brix (10 min)	Users perspectives on the current state of He data
J. Schweinzer (20 min)	The lithium beam modelling database and its extension to sodium
D. Humbert (20 min)	Progress in current CRPs at IAEA and XML
F. Zappa (15 min)	Electron impact cross section data of plasma edge related compounds
A. D. Whiteford (15 min)	OPEN-ADAS pre-release report

Discussion:

12.30 Lunch

3rd session Fusion plasma with metal first-walls
14.00 – 14.45 Chairperson: R. Neu

K.-D. Zastrow (20 min)	Issues for JET – Zeff, reflections, metal wall etc.
R. Dux (20 min)	Tungsten influx measurements at AUG

Discussion:

4th session An end to paperwork - a re-start to science!
14.45 – 15.30 Chairperson: M. von Hellermann

K. Behringer (20 min)	Use of atomic physics in technical plasmas and recent ball lightning spectral analysis
H. P. Summers (20 min)	Janus – “Looking forward and backwards”

Discussion:

15.30 Coffee

5th session ADAS general discussion and forward plans
16.00-17.30 Chairperson: R. Guirlet

A. D. Whiteford (20 min)	ADAS operations and release 2.12
M. G. O'Mullane (20 min)	Future plans and review of developments
H. P. Summers (20 min)	Summary and closing

General Discussion: *to include:* grumbles, complaints & wish lists reasonable & unreasonable, forward plans for 2008, joint work. Fielded by Martin O'Mullane, Allan Whiteford and Hugh Summers.

18.30 Evening meal

Allan Whiteford / Thomas Pütterich
9th October 2007