

The 19th ADAS Workshop
30th Sept – 2nd Oct 2015
INAF – Osservatorio Astrofisico di Catania, Sicily

Wednesday 30th September

18:00 Evening gathering at NH Catania Centro hotel

Thursday 1st October

Opening general session

09:30 – 09:40 A Lanzafame Welcome on behalf of Osservatorio Astrofisico di Catania

Session 1: Astrophysics and fusion overview (Chair: M O'Mullane)

09:40 – 10:05 D Spadaro EUV spectroscopy in view of the Solar Orbiter and Solar Probe Plus space missions

10:05 – 10:30 H Summers Features of atomic emission in fusion and astrophysical plasmas

10:30 – 11:00 Coffee break

Session 2: Talks from the laboratories and universities: Part I (Chair: K Behringer)

11:00 – 11:25 A Lanzafame Differential emission measure signatures of coronal heating

11:25 – 11:50 F Leone Astrophysical Landé factors

11:50 – 12:15 A Giunta Solar Orbiter SPICE: Composition studies

12:15– 14:00 Lunch

Session 3: Talks from the laboratories and universities: Part II (Chair: K Behringer)

14:00 – 14:25 R Guirlet TBC

14:25 – 14:50 A Foster Atomic data needs for high resolution X-ray astronomy

14:50 – 15:15 M Y Song TBC

15:15– 15:45 Coffee break

Session 4: Integrating and evaluating atomic data for key elements (Chair: R Guirlet)

15:45 – 16:10 T Pütterich A consistent set of atomic data for various elements in a fusion reactor

16:10 – 16:35 S Henderson Uncertainty of medium-weight and heavy element line power coefficients

Session 5: Fundamental data for complex species: Part I (Chair: M O'Mullane)

16:35 – 17:00	M Bautista	Neutral and singly ionised iron
17:00 – 17:25	K Aggarwal	Energy levels and radiative rates for transitions in Cr-like Co IV and Ni V
17:25 – 17:50	L Fernandez	Validity of the ICFT <i>R</i> -matrix method

18:00 – 19:00 ADAS steering committee meeting

19:30 Dinner

Friday 2nd October

Session 6: Molecular data and modelling for astrophysics and fusion (Chair: H Summers)

09:30 – 09:50	A Lanzafame	TBC
09:50 – 10:15	K Behringer	Basic programs for C2 and N2 band spectra simulation
10:15 – 10:40	D Borodin	An updated modelling of Be and BeD spectroscopy at JET ILW

10:40 – 11:10 Coffee break

Session 7: Fundamental data for complex species: Part II (Chair: M O'Mullane)

11:10 – 11:35	S Preval	The Tungsten Project: Partial and Total Dielectronic/Radiative Recombination Rate Coefficients for W^{74+} to W^{56+}
11:35 – 11:45	M Bluteau	Collision data and population modelling for W^{44+} : Dirac <i>R</i> -Matrix and non close-coupling electron impact calculations
11:45 – 12:10	C Ramsbottom	A selection of atomic collision calculations from QUB
12:10 – 12:20	M Turkington	The electron-impact excitation of W^{63+}

12:20 – 14:00 Lunch

Session 8: High precision GCR modelling (Chair: A Lanzafame)

14:00 – 14:25	A Giunta	Overview of GCR: Moving towards Fe and enabling transient modelling
14:25 – 14:50	M Bluteau	Ion-impact excitation data for high accuracy GCR: improvements for the semi-classical, impact parameter approach
14:50 – 15:15	M O'Mullane	Advanced spectral fitting with GCR data
15:15 – 16:00	M O'Mullane	ADAS matters