Summary of past 12 months

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ADAS Workshop, October 2009

ADAS 3.0!

- With the addition of Heavy Species and AFG we've moved to ADAS 3.0.
- Bulletin sent to our list (contact us if you didn't get it).
- For full details, please see the 19 page bulletin. Highlights follow.
- Now over 6GB of data!
- Currently being released to all the ADAS sites.

Code additions since last year

- Heavy Species code (and data) covered by Adam
- AFG Covered by Chris
- Smaller additions follow...

Code additions since last year

- New run_ codes added:
 - run_adas211
 - run_adas212
 - run_adas412
 - run_adas807
- Added top level Perl directory:
 - atomic.pm giving Perl-implementations of: xxesym, xxelem and xxeiz0
- Add r8waveh, a companion routine to r8ah, to return the wavelength of an n-n' transition.
- Add an IDL routine for bundle-n population calculations.

Major data additions since last year

- Again, heavy species stuff covered by Adam.
- Add adf15, in the low level metastable unresolved picture, for Li-like Cr^{21+} and Na-like Cu^{18+} .
- Effective emissivity coefficients for CX emission driven by the ground state of He beams have been added for Be, B, C, N and O. For unknown reasons the adf12 data was not produced when the adf01 cross sections were made.
- Na-like data (whole sequence) from Guiyun Liang.
- Added B-like Si file blike_lgy08#si9.dat. Produced by Guiyun Liang.

- Correction to ion-impact data for hydrogen and subsequent follow through to BME, BMS etc.
- Add adf04 data for Arl (Dasgupta plus ADAS801) and Arll (Griffin) with corresponding ADF15 data.

http://www.adas.ac.uk/notes/adas_cm08-01.pdf

 Ionisation rates for Si by K Dere (Astron. Astrophys., 466 (2007), p771) are added as adf07 data (ionelec_dere07#si.dat).

ADAS CVS Access

- Discussed at last workshop,
- Will allow expert users to gain CVS access to ADAS code and data,
- Gives full revision information,
- Presents files flat so that the user doesn't have to understand the internal ADAS directory structures,
- Implemented such that it's a read-only system.

What does it look like...

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<u>File Edit View Go Bookmarks Tools H</u>elp

http://cvs.adas.ac.uk/repository.php?id=3

ADAS-CVS

Direct CVS access to ADAS

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Instructions	Module	CVS Command
Password	xxdata_01	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_01
Repositories	xxdata_04	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_04
• Release	xxdata_07	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_07
• CXS	xxdata_08	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_08
• Code	xxdata_09	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_09
• Data	xxdata_11	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_11
	xxdata_12	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_12
About ADAS	xxdata_13	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_13
	xxdata_15	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_15
	xxdata_21	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_21
	xxdata_22	cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_22

Comments and questions to: adas-at-phys.strath.ac.uk

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Logout

Example commands

[41C:100%]\$ cvs -d :pserver:allan@cvs.adas.ac.uk:/code login Logging in to :pserver:allan@cvs.adas.ac.uk:2401/code CVS password: ***** [41C:100%]\$ cvs -d :pserver:allan@cvs.adas.ac.uk:/code co xxdata_04 cvs checkout: Updating xxdata_04 U xxdata_04/COMPILING U xxdata_04/LICENSE U xxdata_04/LICENSE U xxdata_04/README U xxdata_04/i4fctn.for U xxdata_04/i4idfl.for U xxdata_04/i4idfl.for U xxdata_04/i4unit.for U xxdata_04/r8fctn.for

- U xxdata_04/test.dat
- U xxdata_04/test.for
- U xxdata_04/test.sh
- U xxdata_04/xxcase.for
- U xxdata_04/xxdata_04.for
- U xxdata_04/xxdata_04.pdf
- U xxdata_04/xxpars.for
- U xxdata_04/xxprs1.for
- U xxdata_04/xxrmve.for
- U xxdata_04/xxslen.for
- U xxdata_04/xxword.for

OPEN-ADAS: The first twelve months

- OPEN-ADAS was launched at the end of July 2009.
- Seamless upgrade from ADAS Database v2.12 to v2.13 in October 2008.
- Statistics in this talk are based from 1st August 2008 1st August 2009.
- Since launch almost 100% server uptime (two power cuts).
- Daily usage report is automatically generated every morning.
- Some feedback but no complaints or bugs with the system.

Search Engine^{*} Ranking

Term	Reason	Pos.
open-adas	User has heard of OPEN-ADAS	1
open adas	User has heard of OPEN-ADAS	1
adas	User has heard of ADAS	15
adas atomic	'ADAS' wasn't on first page of results	1
adas fusion	'ADAS' wasn't on first page of results	1
adf04	User has heard of ADF04 files	18
adf11	User has heard of ADF11 files	13
adf01	User has heard of ADF01 files	14
pec96#h_pju#h0.dat	User has file but isn't sure what it is	1
nrb00#he_xe52icr13.dat	User has file but isn't sure what it is	1
flike_mcw05#fe17.dat	User has file but isn't sure what it is	1
atomic data	General search for atomic data	40
atomic data fusion	General search for atomic data	41

* http://www.google.ca was used so as not to bias UK based results.

Signups

- In order to download data, (free) registration is required.
- As of 1st August 2009 (twelve months since launch):
 - 124 registered users,
 - 35 from ADAS member institutions,
 - 89 from non-ADAS member institutions.
- Following statistical breakdowns are based on above but many more since then.

Countries			
Country	Number of users	Country	Number of users
Australia	1	Not Specified	2
Austria	2	Northern Ireland	2
Belgium	1	Pakistan	1
Canada	2	Poland	1
China	6	Portugal	1
Egypt	1	Romania	2
England	1	Russia	3
France	6	Scotland	2
Germany	18	Slovenia	1
India	6	Spain	6
Italy	2	Sweden	1
Japan	4	Switzerland	4
Korea	1	Tunisia	1
Latvia	2	UK	7
Lithuania	1	Ukraine	1
Mexico	1	USA	34

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Signups per month		
Month	Number of Signups	
Betatest	12	
August 2008	5	
September 2008	11	
October 2008	18	
November 2008	8	
December 2008	5	
January 2008	9	
February 2008	6	
March 2009	11	
April 2009	5	
May 2009	16	
June 2009	11	
July 2009	7	

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User Interests

Interest	Number [*] of interested users
Fundamental Atomic Physics	60
Magnetically Confined Fusion	69
Inertially Confined Fusion	11
Astrophysics	32
Plasma Processing	40
Lithography	0
Atomic Databases	68
Defence	2
Other	0

* Note: users can specify as many interests as they like.

Searching Mechanisms

Searching Mechanism	Number of Uses
Freeform searching	527
Wavelength searching	236
Per-ion Searching	1434*
ADF01 Specific Search	256
ADF04 Specific Search	260
ADF07 Specific Search	143
ADF08 Specific Search	115
ADF09 Specific Search	37
ADF11 Specific Search	72
ADF12 Specific Search	84
ADF13 Specific Search	63
ADF15 Specific Search	123
ADF20 Specific Search	0
ADF21 Specific Search	41

*Note: per-ion searching is only an estimate.

Type of file	Number of Views*	Number of Downloads
ADF01	117	47
ADF04	354	125
ADF07	93	49
ADF08	72	23
ADF09	49	9
ADF11	234	137
ADF12	68	28
ADF13	54	17
ADF15	198	82
ADF21	32	10
ADF22	27	15
Total	1298	542

Views and downloads

* Note: only counting views of registered users, unregistered users and search engines

make up the vast majority of the number of views. Only registered users can download data.

Did OPEN-ADAS meet expectations?

- Around 70% of users are from non-ADAS member institutions.
- Good geographical spread of users.
- Steady stream of people registering with the site.
- User interest is focussed on atomic physics, databases and fusion.
- Freeform search is well used.
- Fundamental data in ADF04 files is being distributed more widely.
- Derived data, especially ADF11 and ADF15 are being downloaded.

Other news

- ADAS-EU Started.
- Francisco in place and started well.
- Another ADAS-EU position to fill based at IPP Garching.
- New members: Kurchatov, ITER, PPPL.
- Adam Foster secured a position at Harvard working with Randall.

Thank you!