

---

## ADF17: condensed projection matrices

Provides condensed projection data. Formatting conventions and variable storage are given below.

*Utilising subroutines :*

ADAS208

*Formatted files to ADF17 specification :*

Database Status	Date = March 17, 2003	Data type = condensed projection matrices	Data root = /.../adas/adas/adf17/		
<i>sequence</i>	<i>members</i>	<i>libraries</i>	<i>Comments</i>	<i>Resolution</i>	<i>Quality</i>
Hydrogen	be3ls,c5ls,h0ls,he1ls,o7ls	cbnm93#h	Dickson '93 grids	LS metastable	medium
Helium	be2ls,c4ls,he0ls,o6ls	cbnm93#he	Dickson '93 grids	LS metastable	medium
Lithium	be1ls,c3ls,o5ls	cbnm93#li	Dickson '93 grids	LS metastable	medium
Beryllium	c2ls,o4ls	cbnm93#be	Dickson '93 grids	LS metastable	medium
Boron	c1ls,o3ls	cbnm93#b	Dickson '93 grids	LS metastable	medium
Carbon	c0ls,o2ls	cbnm93#c	Dickson '93 grids	LS metastable	medium
Nitrogen	o1ls	cbnm93#n	Dickson '93 grids	LS metastable	medium
Oxygen	o0ls	cbnm93#o	Dickson '93 grids	LS metastable	medium
Hydrogen	he1ls, li2ls,c5ls, n6ls, o7ls,ne9ls	cbnm96#h	'96' grids	LS metastable	medium
Helium	he0ls,li1ls, c4ls, n5ls, o6ls, ne8ls	cbnm96#he	'96' grids	LS metastable	medium
Lithium	li0ls,c3ls, n4ls, o5ls, ne7ls	cbnm96#li	'96' grids	LS metastable	medium
Beryllium	c2ls, n3ls, o4ls, ne6ls	cbnm96#be	'96' grids	LS metastable	medium
Boron	c1ls, n2ls, o3ls,ne5ls	cbnm96#b	'96' grids	LS metastable	medium
Carbon	c0ls, n1ls, o2ls,ne4ls	cbnm96#c	'96' grids	LS metastable	medium
Nitrogen	n0ls, o1ls,ne3ls	cbnm96#n	'96' grids	LS metastable	medium
Oxygen	o0ls, ne2ls	cbnm96#o	'96' grids	LS metastable	medium
Fluorine	ne1ls	cbnm96#f	'96' grids	LS metastable	medium
Neon	ne0ls	cbnm96#ne	'96' grids	LS metastable	medium



DRREC(IT,I),DXREC(IT,I) DTREC(IT,I),DDREC(IT,I),

repeat

(PQPTMP(J),J=1,4)

repeat

repeat

*variable identification :*

<i>name</i>	<i>meaning</i>
SEQM	sequence identifier
NUCGM	nuclear charge
NPRTM	number of parents
MAXDM	number of densities
MAXTM	number of densities
IEDMAT	(0=> PCRL added onto PCRMAT; 1=> not added)
IECION	(0=> PCION added onto PCRMAT; 1=> not added)
IETREC	(0=> PTREC added onto PCRRHS; 1=> not added)
IEDREC	(0=> PDREC added onto PCRRHS; 1=> not added)
IERREC	(0=> PRREC added onto PCRRHS; 1=> not added)
IEXREC	(0=> PXREC added onto PCRRHS; 1=> not added)
IERSYS	(0=> recom. rates multiplied by spin system weight 1=> not multiplied)
IEFPRS	
IEFPRE	
DENSM()	electron densities (cm-3)
TEM()	electron temperatures (K)



N= 4 2.8548697673D-53-7.1165393594D-14 1.4908569402D+09-2.1873221154D+08  
N= 5 -1.0427932507D-56-2.4317070644D-17-5.3824604211D-10 6.3702548552D+08  
  
ID= 1 IT= 2 5.3149309656D-27-3.4695454293D+09-7.6262217993D+08-2.3980476208D+08  
N= 3 -5.3142292866D-27 3.4695454293D+09-7.2823476024D+08-1.7848851190D+08  
N= 4 -9.9260886215D-31-1.1610445257D-10 1.4908569402D+09-2.1873221154D+08  
N= 5 -9.0625678853D-33-1.3744224121D-12-1.5727158663D-08 6.3702548552D+08  
(DIR) N= 2 5.3149303326D-27-3.4695454293D+09-7.6262217993D+08-2.3980476208D+08  
N= 3 -5.3142290915D-27 3.4695454293D+09-7.2823476024D+08-1.7848851190D+08  
N= 4 -6.9241949464D-31-1.1607863029D-10 1.4908569402D+09-2.1873221154D+08  
N= 5 -8.8216911940D-33-1.3414624025D-12-1.5401533252D-08 6.3702548552D+08

6.6282006979D-17  
1.9465468665D-13  
0.0000000000D+00  
  
7.5730401486D-36  
2.6304465451D-16  
1.7395984088D-12  
1.4395062543D-10  
7.5730401423D-36  
2.6304465385D-16  
1.7395984046D-12  
1.4395062505D-10  
0.0000000000D+00

SPNSYS = 3. NSHEL = 4

-----  
ID= 1 IT= 1 N= 2 9.6942914961D-39-3.4398711235D+09-7.3080447937D+08-2.2699665813D+08  
N= 3 -9.6942908721D-39 3.4398711235D+09-7.2823476024D+08-1.7848851190D+08  
N= 4 -6.2380918324D-46-7.1165451714D-14 1.4590392396D+09-2.1873221154D+08  
N= 5 -2.3286404147D-49-2.4393497335D-17-5.3982747696D-10 6.2421738157D+08  
(DIR) N= 2 9.6942914961D-39-3.4398711235D+09-7.3080447937D+08-2.2699665813D+08  
N= 3 -9.6942908721D-39 3.4398711235D+09-7.2823476024D+08-1.7848851190D+08  
N= 4 -6.2380857480D-46-7.1165393594D-14 1.4590392396D+09-2.1873221154D+08  
N= 5 -2.3206456406D-49-2.4317070644D-17-5.3824604211D-10 6.2421738157D+08

2.0092571353D-55  
4.5762217758D-24  
6.6282007378D-17  
1.9465468788D-13  
2.0092571312D-55  
4.5762217471D-24  
6.6282006979D-17  
1.9465468665D-13  
0.0000000000D+00

ID= 1 IT= 2 N= 2 2.5130119811D-23-3.4398711235D+09-7.3080447937D+08-2.2699665813D+08  
N= 3 -2.5126601751D-23 3.4398711235D+09-7.2823476024D+08-1.7848851190D+08  
N= 4 -3.4717523370D-27-1.1610495867D-10 1.4590392396D+09-2.1873221154D+08  
N= 5 4.6277813621D-29-1.3750699818D-12-1.5733519696D-08 6.2421738157D+08  
(DIR) N= 2 2.5130116492D-23-3.4398711235D+09-7.3080447937D+08-2.2699665813D+08  
N= 3 -2.5126600725D-23 3.4398711235D+09-7.2823476024D+08-1.7848851190D+08  
N= 4 -3.4707564194D-27-1.1607863029D-10 1.4590392396D+09-2.1873221154D+08  
N= 5 4.5011377348D-29-1.3414624025D-12-1.5401533252D-08 6.2421738157D+08

2.9863157116D-32  
2.6304465451D-16  
1.7395984089D-12  
1.4395062543D-10  
2.9863157082D-32  
2.6304465385D-16  
1.7395984046D-12  
1.4395062505D-10  
0.0000000000D+00