

Sep 02, 03 14:23	cipt.dat	Page 1/5
Gd.intn Gd.intnq -36.7664427 E0 0. 0 0 en0,icut,icutq 0. 0. 0. 0. 0. 0. 0. 0. 0. VSC 1. 1. 1. 1. 1. 1. 1. 1. 1. FK -0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma 3. JM - projection of Jfull 5 Nlev 2 0 iconf1,lmax1 9 9 9 9 9 9 9 9 9 9 0 2 iconf2,lmax2 1 4f 7 6s 1 5d 2 4f 7 6s 2 5d 1	Ni.intn Ni.intnq	
Yb+.intn Yb+.intnq -0.6254458 E0 0. 0 0 en0,icut,icutq 0. 0. 0. 0. 0. 0. 0. 0. 0. VSC 1. 1. 1. 1. 1. 1. 1. 1. 1. FK -0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma 2. JM - projection of Jfull 2 Nlev 2 2 iconf1,lmax1 9 9 9 9 9 9 9 9 9 9 0 2 iconf2,lmax2 1 6s 2	Ni.intn Ni.intnq	
Nd.intn Nd.intnq -9.5697679 E0 0. 0 0 en0,icut,icutq 0. 0. 0. 0. 0. 0. 0. 0. 0. VSC 1. 1. 1. 1. 1. 1. 1. 1. 1. FK -0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma 5. JM - projection of Jfull 4 Nlev 0 3 iconf1,lmax1 0 2 iconf2,lmax2 3 4f 3 5d 2 6s 1 4f 3 5d 1 6d 1 6s 1 4f 3 5d 1 7d 1 6s 1 3 4f 4 6s 1 5d 1 4f 4 6s 1 6d 1 4f 4 6s 1 7d 1 4 4f 4 6s 2 4f 4 5d 2 4f 4 6d 2 4f 4 7d 2	Ni.intn Ni.intnq	
Zr.intn Zr.intnq -2.7450777 -2.7862100 E0 0. 0 0 en0,icut,icutq	Ni.intn Ni.intnq	

Monday August 30, 2004

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0. 0. 0. 0. 1. 1. 1. 1. -0. -0. -0. - 2. JM - 6 Nlev 0 2 iconf 0 2 iconf 1 5s 2 4d 5s 1 5p
Yb3.intn Yb3.intnq -126.1644972 0. 0 0 en0,i 0. 0. 0. 0. 1. 1. 1. 1. -0. -0. -0. - 2. JM - 1 Nlev 1 3 iconf 9 9 9 9 9 0 2 iconf 1 4f 13 5d 4f 14
Dy.intn Dy.intnq -60.546701 0. 0 0 en0,i 0. 0. 0. 0. 1. 1. 1. 1. -0. -0. -0. - 10. JM - 1 Nlev 0 3 iconf 0 3 iconf 1 4f 9 5d 4f 10 6s
Ca.intn Ca.intnq -0.2 0. 0 0 en0,i 0. 0. 0. 0. 1. 1. 1. 1. -0. -0. -0. - 0. JM - 2 Nlev 2 3 iconf 9 9 9 9 9 9 9 9 9 9 0 3 iconf 1 4s 2
Yb.intn Yb.intnq -126.3556523 0. 0 0 en0,i

```

0. 0. 0. 0. 0. 0. 0. 0. 0. 0. VSC
1. 1. 0.8 1. 1. 1. 1. 1. 1. FK
-0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma
0.5 JM - projection of Jfull
1 Nlev
1 3 iconf1,lmax1
9 9 9 9
0 2 iconf2,lmax2
1
4f 14 6s 1
4f 13 6s 2
4f 14 5d 1
-----
1
4f 10 6s 1 6p 1
4f 9 5d 2 6s 1
4f 10 5d 1 6p 1
-----
4f 10 6p 2
-----
Pr.intn Ni.intn
Pr.intng Ni.intng
-4.9969843 E0
0. 0 0 en0,icut,icutq
0. 0. 0. 0. 0. 0. 0. 0. 0. VSC
1. 0.6 0.7 1. 1. 1. 1. 1. 1. FK
-0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma
5.5 JM - projection of Jfull
6 Nlev
2 2 iconf1,lmax1
6 6 6 10 10 0
5 5 5 10 0
0 2 iconf2,lmax2
1
4f 2 5d 1
4f 3
-----
Gd.intn Ni.intn
Gd.intng Ni.intng
-34.9227881
0. 0 0 en0,icut,icutq
0. 0. 0. 0. 0. 0. 0. 0. 0. VSC
1. 1. 0.8 1. 1. 1. 1. 1. 1. FK
-0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma
3.5 JM - projection of Jfull
3 Nlev
0 3 iconf1,lmax1
0 3 iconf2,lmax2
1 3 for J=2.5 and 5 for J=3.5
4f 7
4f 6 5d 1
4f 6 6d 1
-----
Eu.intn Ni.intn
Eu.intng Ni.intng
-27.8891042
0. 0 0 en0,icut,icutq
0. 0. 0. 0. 0. 0. 0. 0. 0. VSC
1. 1. 0.8 1. 1. 1. 1. 1. 1. FK
-0. -0. -0. -0. -0. 0. 0. 0. 0. Esigma
4.5 JM - projection of Jfull

```

```
Ni.intlq
-38.794121 E0
0. 0 0 en0,icut,icutq
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. VSC
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. FK
-0. -0. -0. -0. -0. 0. 0. 0. 0. 0. Esigma
2.5 JM - projection of Jfull
1 Nlev
0 2 iconf1,lmax1
2 2 iconf2,lmax2
4 4 12 0 0 nlmax2
4 4 8 0 0
1 3 for J=2.5 and 5 for J=3.5
3d 9
```

```
-38.754875 E0 Alpha = Sqrt(9/8)
-38.779514 -38.779617 E0 Alpha = 1
-38.804134 E0 Alpha = Sqrt(7/8)
```

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78/Ni.intl - integrals
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```
78/Ni.intlq
-38.779617 E0
0. 0 0 en0,icut,icutq
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. VSC
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. FK
-0. -0. -0. -0. -0. 0. 0. 0. 0. 0. Esigma
2.5 JM - projection of Jfull
1 Nlev
0 2 iconf1,lmax1
2 2 iconf2,lmax2
10 10 10 0 0 nlmax2
0 10 10 0 0
1
3d 9
```
