

Errata

Atomic Data from the IRON Project

XXXVI. Electron excitation of Be-like Fe XXIII between $1s^2 2l_1 2l_2 SLJ$ and $1s^2 2l_3 2l_4 S'L'J'$

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Table 3. Levels 31 and 55 were incorrectly identified and should be labelled as follows: 31 = $2p3p^3D_3$ and 55 = $2s4d^3D_3$.

Table 4. In order to be consistent with Table 3 the indexes need to be changed as follows: 40 → 33, 42 → 39, 72 → 73, 90 → 91, 89 → 76, 95 → 93, 77 → 68, 83 → 86.

Table 4. The third mixing coefficient in the third line was miscopied from the CIV3 output and 0.753 should be replaced by 0.715.

Tables 5, 6. We give corrected versions consistent with Table 9.

Table 5. Showing the effect on $\Upsilon(1 - 2)$ of chopping off the IRON Project resonances: (a), IRON; (b) IRON (chopped); (c) Bhatia & Mason (1986). ($2.42^{-3} \equiv 2.42 \cdot 10^{-3}$)

$\log T$	(a)	(b)	(c)
6.3	2.42^{-3}	1.22^{-3}	1.34^{-3}
6.5	2.46^{-3}	1.18^{-3}	1.27^{-3}
6.7	2.37^{-3}	1.12^{-3}	1.17^{-3}
6.9	2.12^{-3}	1.02^{-3}	1.04^{-3}
7.1	1.78^{-3}	0.90^{-3}	0.89^{-3}
7.3	1.41^{-3}	0.75^{-3}	0.74^{-3}
7.5	1.06^{-3}	0.61^{-3}	0.60^{-3}
7.7	0.78^{-3}	0.47^{-3}	0.46^{-3}
7.9	0.56^{-3}	0.36^{-3}	0.34^{-3}
8.1	0.39^{-3}	0.26^{-3}	0.24^{-3}

Table 6. Showing how the high energy contribution to Υ increases with temperature for three types of transition. Intersystem (non electric dipole) transition: (a) $\Upsilon(1 - 2)$ with $E_{\max} = 346.8 \text{ Ry}$; (b) $\Upsilon(1 - 2)$ with $E_{\max} = 10^5 \text{ Ry}$. Intersystem (electric dipole) transition: (c) $\Upsilon(1 - 3)$ with $E_{\max} = 346.6 \text{ Ry}$; (d) $\Upsilon(1 - 3)$ with $E_{\max} = 10^5 \text{ Ry}$. Electric dipole transition: (e) $\Upsilon(2 - 7)$ with $E_{\max} = 340.7 \text{ Ry}$; (f) $\Upsilon(2 - 7)$ with $E_{\max} = 10^5 \text{ Ry}$. E_{\max} is the value used for the upper limit in the integral that defines Υ and it should in theory be ∞ . ($2.12^{-3} \equiv 2.12 \cdot 10^{-3}$)

$\log T$	(a)	(b)	(c)	(d)	(e)	(f)
6.9	2.12^{-3}	2.12^{-3}	1.33^{-2}	1.34^{-2}	1.59^{-1}	1.59^{-1}
7.1	1.78^{-3}	1.78^{-3}	1.33^{-2}	1.35^{-2}	1.72^{-1}	1.76^{-1}
7.3	1.40^{-3}	1.41^{-3}	1.27^{-2}	1.36^{-2}	1.76^{-1}	1.96^{-1}
7.5	1.04^{-3}	1.06^{-3}	1.12^{-2}	1.39^{-2}	1.64^{-1}	2.18^{-1}
7.7	7.45^{-4}	7.85^{-4}	9.12^{-3}	1.43^{-2}	1.37^{-1}	2.41^{-1}
7.9	5.12^{-4}	5.63^{-4}	6.85^{-3}	1.47^{-2}	1.05^{-1}	2.64^{-1}
8.1	3.42^{-4}	3.98^{-4}	4.86^{-3}	1.53^{-2}	7.55^{-2}	2.86^{-1}