

Erratum

**Dielectronic recombination data for dynamic
finite-density plasmas**

VI. The boron isoelectronic sequence

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It turns out that for the dielectronic recombination (DR) of Ne⁵⁺, Na⁶⁺ and Mg⁷⁺, Altun et al. (2004) archived test *adf09* files for DR via 2–3 core excitations. These test files only allowed for capture to $n = 3$. These files were subsequently combined with the contributions from 2–2 core excitations so as to form the total DR rate coefficients from which the DR fits were determined.

The full 2–3 *adf09* files for capture to all n were still available and have replaced the test files archived in ADAS and at CFADC (see Altun et al. 2004). New fitting coefficients have been determined for these three ions to replace those in the original Table 1 of Altun et al. (2004), and are shown below.

Table 1. Fitting coefficients c_i and E_i for Eq. (4) of Altun et al. (2004) for Ne⁵⁺, Na⁶⁺ and Mg⁷⁺ ions of the boron isoelectronic sequence.

Ion	c_1	c_2	c_3	c_4	c_5	E_1	E_2	E_3	E_4	E_5
Ne ⁵⁺	1.026(−4)	4.859(−4)	1.450(−2)	1.606(−2)	7.273(−4)	4.509(+3)	5.835(+4)	2.992(+5)	1.016(+6)	2.208(+6)
Na ⁶⁺	1.912(−4)	9.751(−4)	1.917(−2)	3.090(−2)	2.374(−4)	1.095(+4)	7.310(+4)	3.514(+5)	1.363(+6)	7.097(+6)
Mg ⁷⁺	8.979(−5)	6.806(−4)	1.602(−2)	1.389(−2)	4.863(−2)	5.970(+2)	3.070(+4)	3.034(+5)	7.184(+5)	1.807(+6)

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References

Altun, Z., Yumak, A., Badnell, N. R., Colgan, J., & Pindzola, M. S. 2004, A&A, 420, 775