

Erratum

Effective collision strengths for electron impact excitation of C II[★]

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ABSTRACT

We correct data published in the above paper as Table 2 and replot Figs. 2 and 4.

Key words. atomic processes – line: formation – methods: analytical – errata, addenda

1. Introduction

In the paper “Effective collision strengths for electron impact excitation of C II” published in A&A 432, 731–736 (2005), an error was made in processing the collision strengths to obtain the Maxwellian-averaged effective collision strengths. Table 2 (available at the CDS) containing the non-zero effective collision strengths has now been updated with the corrected data.

The figures presented here are the updated versions of Figs. 2 and 4. The effective collision strengths are plotted as a function of $\log(T)$ where T is the electron temperature in kelvin, and are compared with data from Blum & Pradhan (1992). The upper figure corresponds to the $2s2p^2\ ^4P_{1/2}-2s2p^2\ ^2D_{5/2}$ transition. The lower figure is the $2s2p^2\ ^2D_{3/2}-2s^23p\ ^2P_{3/2}^o$ transition. In both these plots the dashed line represents the Blum & Pradhan (1992) data and the solid lines are the current updated values.

2. Conclusions

Our corrected data shows improved agreement with the work of Blum & Pradhan for the two transitions here noted. However, we still find discrepancies for other transitions.

References

Blum, R. D., & Pradhan, A. K. 1992, ApJS, 80, 425

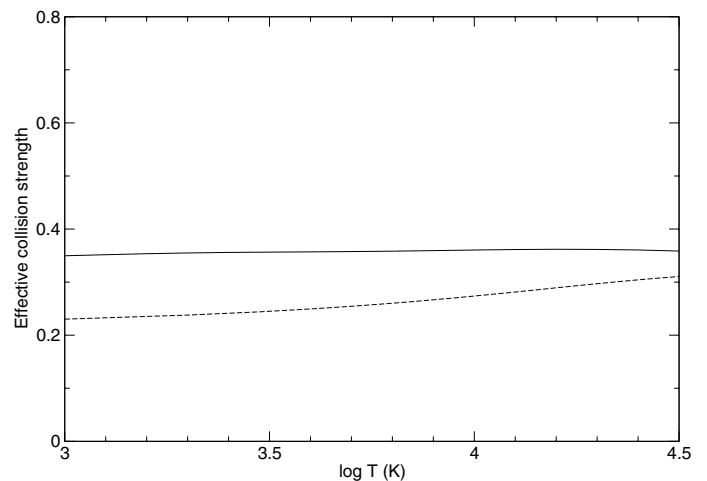


Fig. 2.

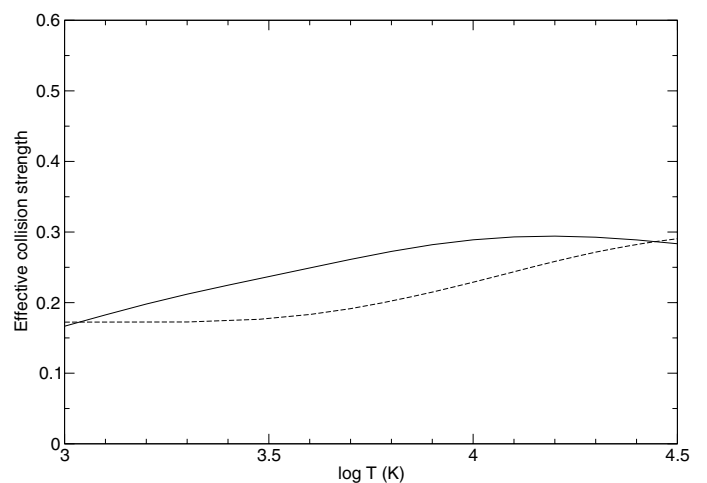


Fig. 4.

* Table 2 is only available in electronic form at the CDS via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via <http://cdsweb.u-strasbg.fr/cgi-bin/qcat?J/A+A/461/765>