

**CONFIGURATION INTERACTION EFFECT
ON OPEN M-SHELL IRON AND NICKEL
LTE SPECTRAL OPACITY, ROSSELAND AND PLANCK MEANS**

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We have recently shown [1] that iron and nickel open M-shell opacity spectra, up to $\Delta n=2$, are very sensitive to CI treatments at temperature around 15 eV and for various densities, by comparing extensive CI calculations obtained with two opacity codes HULLAC-v9 [2] and SCO-RCG [3]. In this work we shall extend these opacity comparisons to computed Rosseland and Planck means for low temperatures and densities limited to cases with average ionization $Z^* \geq 8$.

[1] D. Gilles, M. Busquet, M. Klapisch, F. Gilleron, J.-C. Pain. (HEDP, 2015) accepted, Doi: 1016/j.hedp.2015.04.008.

[2] M. Busquet, M. Klapisch, D. Gilles, EPJ Web of Conferences **59**, 14004 (2013); D. Gilles, S. Turck-Chièze, M. Busquet et al, EPJ Web of Conferences **59**, 14003, (2013).

[3] J.-C. Pain, F. Gilleron, High Energy Density Physics **15**, 30 (2015).