



Spectral data for F-like ions: Ca, Ti, Cr, Ni

POSTER

Abstract

Transition Probabilities, oscillator strengths and lifetimes have been determined for fluorine like Ca, Ti, Cr, and Ni through atomic structure calculations in the relativistic Breit-Pauli approximation. These transition parameters are needed for spectral analysis of iron-peak elements in astrophysical objects. We employed the code SUPERSTRUCTURE. The results are compared with available theoretical and experimental results. Good agreement with results in the literature has been found for most cases.

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