## Abstract Submitted for the DAMOP15 Meeting of The American Physical Society

Spectral data for F-like ions: Ca, Ti, Cr, Ni¹ GULTEKIN CELIK, SULE ATES, Selcuk University, SULTANA NAHAR, The Ohio State University — 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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