

**ON THE ATOMIC AND COLLISIONAL STRUCTURE
OF THE ION Sc XVI**

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We present the main results of our investigations of the atomic and collisional structure of the Sc XVI ion. The results have been theoretically determined by the Thomas-Fermi-Dirac-Amaldi potential (TFDA) approach using the AUTOSTRUC-TURE atomic structure code. We have calculated energy levels, oscillator strengths and collisional strengths of the carbon-like Sc XVI ion. Our calculations are compared with other theoretical and experimental results. Trends of these parameters according to the ion charge are also studied.