

Analysis of atomic parameters of F-Like W beneficial in Astrophysical Plasma.

Using Grasp (General Purpose Relativistic Atomic Structure Package) and FAC (Flexible Atomic Code), we report a comprehensive and detailed investigation of W LXVI. We have also added relativistic corrections as well as Breit correction with Quantum Electro Dynamics. For lowest 25 fine-structure levels, we provided energy level and radiative data for multipole transitions as Electric dipole (E1), Electric quadrupole (E2), Magnetic dipole (M1), and Magnetic quadrupole (M2). With the help of radiative data, we have also identified Extreme ultraviolet (EUV), ultraviolet (UV) and Soft X-ray (SXR) theoretically. We achieved good agreement when we compared our estimated data to NIST energy levels. We believe that our data will be valuable in astrophysical plasma, fusion plasma and plasma modeling.

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