INELASTIC ELECTRON SCATTERING FORM FACTOR OF ISOSCALAR ($T = 0$) AND ISOVECTOR ($T = 1$) PARTICLE-HOLE STATES IN ^{12}C AND ^{16}O

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S u m m a r y

Inelastic longitudinal and transverse electron scattering form factors of low-lying $T = 0$, $T = 1$ particle-hole states of ^{12}C and ^{16}O are studied in the framework of the Tamm–Dancoff approximation (TDA). The Hamiltonian with the Michigan-three-Yukawa (M3Y) potential is diagonalized. To obtain a good agreement with the experimental data, the ground state is corrected by including the admixture from higher orbits with regard for the core polarization effects.