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Electron-Deuteron Tensor Polarization and D-State Probability

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Abstract: Electron-deuteron tensor polarization T₂₁(q) is calculated for thirty-three N-N local potential models. New relations have been found between the peak value of T₂₁(q) and some of the deuteron properties. An experimental value of deuteron D-state probability P_D = 5.9861% \pm 0.2687% is deduced.



Key Words: ed scattering, tensor polarization, deuteron D-state probability, deuteron quadrupole moment, deuteron form factors.

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