Turkish Journal of Physics

Off-diagonal Matrix Elements and Sum Rules involving Coulomb and Isotropic Oscillator Functions

Harry A. MAVROMATIS
Physics Department, King Fahd University of Petroleum and Minerals,
Dhahran 31261, Saudi-ARABIA
e-mail: harrym@kfupm.edu.sa

Abstract: Off-diagonal matrix elements and sum rules for the Coulomb and isotropic oscillator systems are obtained from a study of relations between the off-diagonal matrix elements of a general recursion relation.

Key Words: recursion relations, off-diagonal matrix elements, sum rules, Coulomb system, isotropic oscillator system

Keywords
Authors

phys@tubitak.gov.tr

Scientific Journals Home Page