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Dimensionality and Energy Levels of Quantum Mechanical Systems

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Harry A. MAVROMATIS
Physics Department
King Fahd University of
Petroleum and Minerals
Dhahran 31261 SAUDI ARABIA



<u>Abstract:</u> The N-dimensional Schrödinger equation involving a general, central potential $V_N(r)$, is decomposed into a 3-dimensional component plus a term that may be treated as a dimension-dependent perturbation. This allows discussion of the general N-dimensional system from a 3-dimensional perspective.



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phys@tubitak.gov.tr

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