Application of Qiang-Dong Proper Quantization Rule to Pseudoharmonic Potential and Its Thermodynamics Properties

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ABSTRACT

Motivated by the recent works [J. Math. Chem. **50** (2012) 881, Chem. Phys. **421** (2013) 84], we attempt to study the thermodynamics properties of diatomic pseudoharmonic potential. The recently proposed Qian-Dong proper quantization rule have been employed in our calculations. The results also include rotational-vibrational energy spectrum for some diatomic molecules.