ANALYSIS OF DIFFICULT EFFECTS BELONG TO QUANTUM PHYSICS ON THE BASIS OF INFORMATION TECHNOLOGIES

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ABSTRACT

In this work, the BP method was used and modeled on ICT in order to calculate the energy levels of electron in the KH for calculating polyaron effects, and the image of the compressive potential of the KH was considered parabolic. Because of the difficulty of solving the differential equation its solution is sometimes used by linear combinations of specific solutions which are obtained in strong and weak interaction regimes. When this method is applied to the volumetric polar semiconductors, the interpolation estimation of the energy of polaron state is obtained. In this case the correction due to the polaron effect occurs in the regime of a strong interaction impact in this condition the electron wave function is localized in the polarization field.

Keywords: Quantum, spectrum, electron, wave, atom, effect, orbit, cloud model, quantum physics, hydrogen atom, Schrödinger equation.