EXCITON STATES IN QUASI-ZERO-DIMENSIONAL SEMICONDUCTOR SYSTEMS

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S u m m a r y

For a semiconductor quantum dot (QD), the contributions made to the exciton energy spectrum by the electron and hole kinetic energies, the energy of Coulomb interaction between them, and the energy of their polarization interaction with the spherical interface between the QD and the dielectric medium have been analyzed. The limit transition from the energy spectrum of the exciton in the QD to that of the exciton in the infinite bulk has been traced.