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The Effect of Spatially Dependent Screening On the Donor Ionization Energy in a Quantum Wire

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**B.N. ONWUAGBA** 

Department of Physics, Federal University of Technology

Owerri - NIGERIA



Abstract: The effect of the spatially dependent screening on the ionization energy of a shallow donor in a 1D quantum well wire made of Ga<sub>1.v</sub>Al<sub>v</sub>/GaAs superlattice is presented. A variational approach is used to obtain ionization energy of the on-centre impurity at the origin of the well and the results obtained are compared with the existing values.



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phys@tubitak.gov.tr

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