## 2001 Vol. 36 No. 4 pp. 491-496 DOI:

Hyperspherical Analysis of D<sup>-</sup> in a Quantum Well

GU Yun-Ting

Department of Physics, Guangxi University, Nanning 530004, China

(Received: 2000-12-15; Revised: 2001-2-14)

Abstract: By introducing hyperspherical coordinates and assuming the quasiseparability of the hyperradius R from the angular variables  $\Omega$  in the wavefunctions, we have solved the Schrödinger equation for a D- center in two dimensions to obtain the low-lying spectrum. The correlation patterns in these states are visualized.

PACS: 78.66.Fd, 71.35.+z, 73.20.Dx, 78.20.Ls Key words: impurity states, quantum wells

[Full text: PDF]

Close