

Optical Properties of Biexcitons in ZnSe/Zn_{1-x}Mn_xSe Quantum Wells

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Abstract

It is shown that in ZnSe/(Zn, Mn)Se quantum wells six biexcitonic states can exist. The group-theoretical classification of these states is performed. The probabilities of biexciton two-photon absorption, hyper-Raman scattering, and radiative recombination are calculated. The polarization properties of two-photon absorption of two- and three-dimensional excitons are discussed.