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Disorder effects in dilute magnetic semiconductors

ABSTRACT. This paper summarizes the results of my studies of disorder effects in dilute magnetic semiconductors. The structural, magnetic and Coulomb disorder are discussed both in bulk and 2D systems. The magnetic and transport properties of structures with MnSb ferromagnetic nanograins embedded in a GaMnSb matrix, InGaAs quantum wells doped with a Mn delta-layer separated from the quantum well by a 3 nm thick spacer, and a CdGaAs₂ bulk single crystal with 6 atom% Mn, are discussed.

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