Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Monte Carlo Simulations of Diluted Magnetic Semiconductors[1]

J. RUFINUS, Widener University, Chester, PA 19013 — We have performed Monte Carlo-based simulations of Diluted Magnetic Semiconductors materials in a large scale three- dimensional cube with periodic boundary condition. We present the preliminary results of our study of the transition temperatures of these materials. We also compared our results with those obtained using mean field theory.

[1]Work supported in part by NSF Grant Number 0304429

J. Rufinus
Widener University

Date submitted: 16 Dec 2004 Electronic form version 1.4