

SPIN IN DARK MATTER PROBLEM

*V. A. Bednyakov**

Joint Institute for Nuclear Research, Dubna

INTRODUCTION	639
EVENT RATE AND CROSS SECTIONS	645
NUCLEAR SPIN STRUCTURE AT FINITE-MOMENTUM TRANSFER	651
CROSS SECTIONS IN THE EFFECTIVE LOW-ENERGY MSSM	656
TWO CONSTRAINTS FOR SUSY DUE TO THE SPIN	665
MIXED SPIN–SCALAR WIMP–NUCLEON INTERACTIONS	668
SOME OTHER CONSEQUENCES OF THE DAMA RESULTS	673
CONCLUSIONS	682
A. ELEMENTS OF NUCLEAR STRUCTURE CALCULATIONS	683
B. NUCLEON SPIN STRUCTURE	685
C. EFFECTIVE NEUTRALINO–QUARK LAGRANGIAN	687
D. SUSY PARTICLE SPECTRUM	688
REFERENCES	690

*E-mail: Vadim.Bednyakov@jinr.ru