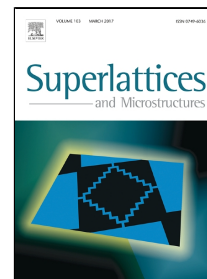


Accepted Manuscript

Monte carlo study of a ferrimagnetic mixed-spin (2, 5/2) system with the nearest and next-nearest neighbors exchange couplings

Jiang-lin Bi, Wei Wang, Qi Li



PII: S0749-6036(17)30524-4

DOI: 10.1016/j.spmi.2017.04.004

Reference: YSPMI 4930

To appear in: *Superlattices and Microstructures*

Received Date: 01 March 2017

Accepted Date: 04 April 2017

Please cite this article as: Jiang-lin Bi, Wei Wang, Qi Li, Monte carlo study of a ferrimagnetic mixed-spin (2, 5/2) system with the nearest and next-nearest neighbors exchange couplings, *Superlattices and Microstructures* (2017), doi: 10.1016/j.spmi.2017.04.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights:

- ▶ A ferrimagnetic mixed-spin (2,5/2) Ising system with next nearest-neighbor exchange couplings has been proposed.
- ▶ Effects of exchange couplings and anisotropy on the magnetic properties of the system were investigated by Monte Carlo simulations.
- ▶ Various types of magnetization curves depend on physical parameters and temperature.
- ▶ The phase diagrams for different next nearest-neighbor exchange couplings and anisotropy have been obtained.

Download English Version:

<https://daneshyari.com/en/article/7940495>

Download Persian Version:

<https://daneshyari.com/article/7940495>

[Daneshyari.com](https://daneshyari.com)