## 2005 Vol. 44 No. 3 pp. 415-418 DOI:

Modified Heisenberg Ferromagnet Model and Integrable Equation

ZHAO Wei-Zhong, <sup>1</sup> LI Min-Li, <sup>1</sup> QI Yu-Hai, <sup>1,2</sup> and WU Ke<sup>1,3</sup>

- <sup>1</sup> Department of Mathematics, Capital Normal University, Beijing 100037, China
- $^{\rm 2}$  Department of Mathematics of Minority Normal College, Qinghai Normal University, Xining 810008, China
- <sup>3</sup> Key Laboratory of Mathematics Mechanization, Academy of Mathematics and System Sciences, the Chinese Academia of Sciences, Beijing 100080, China (Received: 2005-1-21; Revised: )

Abstract: We investigate some integrable modified Heisenberg ferromagnet models by using the prolongation structure theory. Through associating them with the motion of curve in Minkowski space, the corresponding coupled integrable equations are presented.

PACS: 02.40.Hw, 02.30.Jr, 02.30.lk

Key words: Heisenberg ferromagnet model, integrable equation, prolongation

structure, space curve

[Full text: PDF]

Close