2005 Vol. 44 No. 1 pp. 8-10 DOI:

Periodic Wave Solutions to Dispersive Long-Wave Equations in (2+1)-Dimensional Space

TIAN Ying-Hui, ¹ CHEN Han-Lin, ¹ and LIU Xi-Qiang²

¹ School of Mathematics and Physics, Southwest University of Science and Technology, Mianyang 621010, China ² Department of Mathematics, Liaocheng University, Liaocheng 252059, China (Received: 2004-11-30; Revised: 2005-2-5)

Abstract: Periodic wave solutions to the dispersive long-wave equations are obtained by using the F-expansion method, which can be thought of as a generalization of the Jacobi elliptic function method. In the limit case, solitary wave solutions are obtained as well.

PACS: 02.30.Jr, 05.45.Yv Key words: dispersive long-wave equations, \$F\$-expansion method, periodic wave solutions, Jacobi elliptic functions, solitary wave solutions

[Full text: PDF]

Close