学术报告

Blow-up for the Davey-Stewartson System with the Subcritical Nonlinearity

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报告摘要: In this talk, we study the two dimensional Davey-Stewartson system in the subcritical case 1 . By exploiting a new variational characteristic, we can obtain an increasing order of the subcritical non- linearity by the stability theory for nonlinear Schrodinger equations, and then construct the finite time blow-up solutions, which suggests the sharp threshold mass of blow-up and global existence for the Davey-Stewartson system in the case <math>1 . Moreover, we give the scaling blow-up rate for the Davey-Stewartson system without scaling invariance due to <math>2p < 3. And we also find a precisely sharp criteria of blow-up and global existence for the Davey-Stewartson system in the case 3 .

欢迎大家参加!