数学与系统科学研究院 计算数学所学术报告

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报告题目:

Two-component Hunter-Saxton equation

邀请人: 胡星标 研究员

报告时间: 2015年8月7日(周五)

晚上 20:00~21:00

报告地点: 数学院南楼六层

602 会议室

Abstract:

In this talk, we study the bilinear form and the general N-soliton solution for two-component Hunter-Saxton (2-HS)equation, which is the short wave limit of a two-component Camassa-Holm equation. By defining a hodograph transformation based aconservation law on variable appropriate dependent transformations, we propose a set ofbilinear equations which yields the 2-HS equation. Furthermore, construct the we N-soliton solution to the 2-HS equation based on the tau functions of an extended two-dimensionalToda-lattice hierarchy through reductions. One- and two-soliton solutions are calculated and analyzed.

欢迎大家参加!