数学与系统科学研究院

计算数学所学术报告

报告人：Prof. Xianguo Geng

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报告题目：

Explicit quasi-periodic solutions of the Kaup-Newell hierarchy

邀请人： 胡星标 研究员

报告时间：2015 年 12 月 20 日（周日）

晚上 20:00~21:00

报告地点： 数学院南楼七层

702 会议室

Abstract：

An algebraic curve of arithmetic genus is introduced with the aid of the Lax matrix, from which we construct the meromorphic function on the algebraic curve and investigate its properties. Further, we straighten out all the flows associated with the Kaup-Newell hierarchy under the Abel-Jacobi coordinates. Finally, we achieve the explicit quasi-periodic solutions for the whole Kaup-Newell hierarchy, including the coupled derivative nonlinear Schrödinger equations.

欢迎大家参加！