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：

Interlacing multipeakons of a two-component modified Camassa-Holm equation

邀请人： 周爱辉 研究员

报告时间：**2016** 年 **1** 月 **6** 日（周三）

下午 **16:00~17:00**

报告地点： 数学院南楼二层

202 会议室

Abstract:

A spectral and the inverse spectral problem are studied for the two-component modified Camassa-Holm type for measures associated to interlacing peaks. It is shown that the spectral problem is equivalent to an inhomogenous string problem with Dirichlet/Neumann boundary conditions. The inverse problem is solved by Stieltjes' continued fraction expansion, leading to an explicit construction of peakon solutions. Sufficient conditions for the global existence in t are given. The large time asymptotics reveals that, asymptotically, peakons break into two-peakon bound-states moving with constant speeds. The peakon flow is shown to project to one of the isospectral flows of the finite Kac-van Moerbeke lattice.

欢迎大家参加！