

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:

Unified bilinear form and recursion operator of soliton hierarchy and their integrable discretization

邀请人: 胡星标 研究员

报告时间: 2016 年 3 月 31 日 (周四)

晚上 20:00~21:00

报告地点: 数学院南楼七层

702 会议室

Abstract:

In this talk, the unified bilinear forms of the AKNS hierarchy and the KdV hierarchy are presented from their recursion operators. Via the compatibility between soliton equation and its Bäcklund transformation, the bilinear integrable hierarchies are discretized and the discrete recursion operators are obtained. All the discrete recursion operators converge to the original continuous forms when taking a standard limit

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