

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Youjin Zhang**

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报告题目:

**Special Cubic Hodge Integrals and
the Fractional Volterra Hierarchy**

邀请人: 常向科 副研究员

报告时间: 2019 年 12 月 25 日(周三)

下午 14:30-15:30

报告地点: 数学院南楼七层

702 教室

Abstract:

We show that the generating function of cubic Hodge integrals satisfying the local Calabi-Yau condition is the tau function of a particular solution of an integrable hierarchy called the fractional Volterra hierarchy. This integrable hierarchy is a certain generalization of the Volterra lattice hierarchy (also called the discrete KdV hierarchy) which is well known in the theory of nonlinear integrable systems. The talk is based on joint work with Si-Qi Liu, Di Yang and Chunhui Zhou.

欢迎大家参加！