

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Guofu Yu**

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报告题目:

**Generating functions related to the  
Umemura polynomials for the third  
Painlevé equation**

邀请人: 胡星标 研究员

报告时间: 2016 年 12 月 4 日 (周日)

晚上 19:30-20:30

报告地点: 数学院南楼七层

702 教室

## **Abstract:**

**In this talk, we first review Hankel determinants associated to rational solutions of Painlevé II, IV, V equations. Then we construct the Hankel determinant representation for the Umemura polynomials which characterise a class of rational solutions to the Painlevé III equation. We give the generating functions for the entries of Hankel determinant formula. This is a joint work with Yik-Man Chiang.**

**欢迎大家参加！**