

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Guofu Yu**

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报告题目:

**Two-parameter generalization of  
Cauchy Bi-Orthogonal polynomials**

邀请人: 常向科 副研究员

报告时间: 2019 年 12 月 11 日 (周三)

晚上 20:30-21:30

报告地点: 数学院南楼二层

224 教室

## Abstract:

We consider the two-parameter generalization of Cauchy bi-orthogonal polynomials from the study of the  $\theta$ -deformation of the Cauchy two-matrix model. Orthogonality and recurrence relation are derived parallel to the classic Cauchy bi-orthogonal polynomials. It is shown that the two-parameter Cauchy-Laguerre bi-orthogonal polynomials are special case. The time evolution and related integrable systems are obtained.

欢迎大家参加！