

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Xiangke Chang**

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报告题目:

**On three term recurrence and
Christoffel-Darboux identity for
orthogonal rational functions on the
real line**

邀请人: 胡星标 研究员

报告时间: 2016年2月20日(周六)

晚上 20:00~21:00

报告地点: 数学院南楼七层

702 会议室

Abstract:

First, we give an algebraic proof to the Christoffel-Darboux identity of formal orthogonal rational functions on the real line by exposing some underlying algebraic properties. This proof does not involve the three term recurrence relationship. Besides, it is shown that if a family of rational functions satisfies the Christoffel-Darboux relation, then it also admits a three term recurrence relationship. Thus the equivalence between both relations is revealed.

欢迎大家参加！