

报告题目: On the Hedenmalm-Shimorin estimate of short antidiagonals 报告人: 邱彦奇 研究员 (中科院数学所) 时间: 2020-10-23 星期五 10:00-11:00 地点: 光华楼东主楼 1801, 腾讯会议 ID: 646 433 687 报告摘要:

Based on analysis of pairs of Gaussian Analytic functions of Dirichlet type, Hedenmalm and Shimorin obtained very recently a sharp estimate of short antidiagonals for contrative operators on Hilbert space. In this talk, I will present an elementary and direct proof of such estimates and generalize the estimates to higher order tensors. We find also an application of our work in the following problem: consider three sequences of random variables \$(X\_n), (Y\_n), (Z\_n)\$, each of which is a sequence of i.i.d. Gaussian random variables, but no a priori knowledge is known on their joint distribution, what can we say about the joint moments \$E(X\_i Y\_j Z\_k)\$? This talk is based on a joint work with Yong HAN and Zipeng WANG. 非线性数学模型与方法教育部重点实验室 上海市现代应用数学国际联合实验室

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