

# 中国科学院数学与系统科学研究院

## 量子论与信息论

### 学术报告

报告题目: **Testing Non-Gaussian Entanglement and Its Applications**

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时 间: 2024年11月4日(星期一) 16:00--17:00

地 点: 数学与系统科学研究院 南楼 620

摘 要: Quantum entanglement is a distinctive feature of quantum physics and is key resource in many quantum information tasks. Entanglement in continuous-variable non-Gaussian states are of particular interest in quantum technology due to their potential applications in quantum computing and quantum metrology. However, how to create such states and detect its non-Gaussian entanglement remain a challenge since the sheer amount of information in such states grows exponentially and makes a full characterization impossible. Here, I would introduce our recent progress for creating non-Gaussian states and experimentally feasible approach to detect non-Gaussian entanglement.