




复旦大学数学科学学院
数学综合报告会

报告题目：Wehrl-type inequalities for the holomorphic discrete series

报告人：Dr. Robin van Haastrecht (瑞典查尔姆斯理工大学)

时间：2026-11-10 星期二 15:00-16:00

地点：光华楼东主楼2001

报告摘要：

Wehrl first investigated Wehrl-type inequalities while studying entropy in quantum mechanics. They can be formulated as inequalities of integrals of matrix coefficients of Lie groups, and the main question is to find states with minimal entropy. In this talk we prove L^2 − L^p Wehrl-type inequalities for the holomorphic discrete series representations of semisimple Lie groups. We find the best constants for inequalities and characterize the maximizers for even integers. This is joint work with Genkai Zhang.

非线性数学模型与方法教育部重点实验室
中法应用数学国际联合实验室
上海市现代应用数学重点实验室
复旦大学数学研究所