Renormalization and reducibility of quasi-periodic cocycles

报告人：潘亿，Centro De Giorgi, SNS Pisa

时间： 2026.01.14周三下午16：00-17：00

地点：文萃楼E1008

摘要：Hyperbolicity of renormalization has been studied in several different settings. We will talk about a first result in the quasi-periodic cocycle case. As an application, we will show a global reducibility result of quasi-periodic symplectic cocycles: given one parameter family of such cocycles, for almost every parameter, either the maximal Lyapunov exponent is positive, or the cocycle is almost conjugate to some precise linear model. The technics also include Kotani theory, KAM theory. This is a joint work with Artur Avila and Raphaël Krikorian.

个人简介：潘亿，意大利比萨高师De Giorgi数学研究中心博士（Junior Visiting Position）。本科毕业于中国科学技术大学，2023年于法国巴黎取得博士学位，师从Artur Avila和Raphaël Krikorian。主要研究兴趣包括拟周期cocycle的可约性，重整化算子的双曲性，哈密尔顿系统的稳定性，KAM理论。