



复旦大学数学科学学院 数学综合报告会

午间学术报告会（一百九十）

报告题目：**A notion of convexity for Levi-flat structures**

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报告时间：2025-05-16 星期五 12:00-13:00

报告地点：光华东主楼 2201

摘要：

The Levi-Flat structure dates back to the seminal work of L.Nirenberg generalizing the Newlander-Nirenberg theorem on complex structures, it has been one of the main topics in theory of involutive structures. We introduce a notion of convexity for Levi-flat structures motivated by Morse theory and Grauert type convexity from SCV. Applications to global/local solvability of the Treves complex will be presented. We will also talk about the extension problem for the canonical bundle of a Levi flat structure.

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