



## 复旦大学数学科学学院 数学综合报告会

报告题目: **Bundles with extra geometric structure**

报告人: Professor Thomas Farrell

(YMSC)

报告时间: 2016-03-18 星期五 15: 00-16: 00

报告地点: 光华东主楼 1801

摘要: This talk is about smooth fiber bundles whose concrete fibers are each equipped with a Riemannian metric whose sectional curvatures are constrained to lie in a fixed interval  $I$  of real numbers. We will focus mostly on the case where  $I = (-\infty, 0)$  called negatively curved bundles. In an attempt to find characteristic classes for such bundles, Bustamante, Jiang and I studied the tautological classes for bundles whose abstract fiber is non-positively curved. I will briefly state some results from this study. This talk is a report on joint work with several people including Pedro Ontaneda, Andrey Gogolev, Mauricio Bustamante and Yi Jiang.

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