



复旦大学数学科学学院 数学综合报告会

报告题目：: **On the classification and mordell-weil groups of families of curves with two singular fibers**

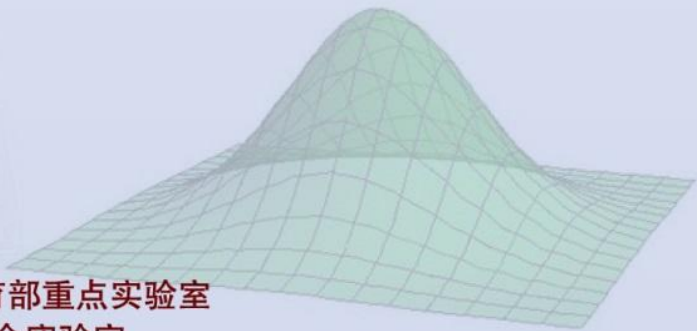
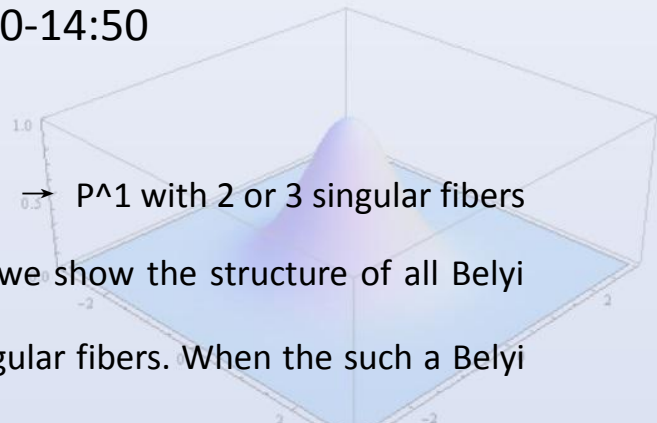
报告人：龚成 副教授

（苏州大学）

报告时间：2017-04-17 星期一 14:00-14:50

报告地点：光华东主楼 1501

摘要：A relatively minimal family of curves $f : S \rightarrow P^1$ with 2 or 3 singular fibers is called a Belyi family or fibration. In this talk, we show the structure of all Belyi families of curves of genus $g \geq 2$ with two singular fibers. When the such a Belyi family is simple connected, we can define exactly it by an equation. We compute all sections of f and its Mordell-Weil group. As an application, we prove that any periodic fiber can be realized as a fiber of a Belyi fibration with two singular fibers.



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