



复旦大学数学科学学院 数学综合报告会

报告题目：Presentations for cusped arithmetic hyperbolic lattices

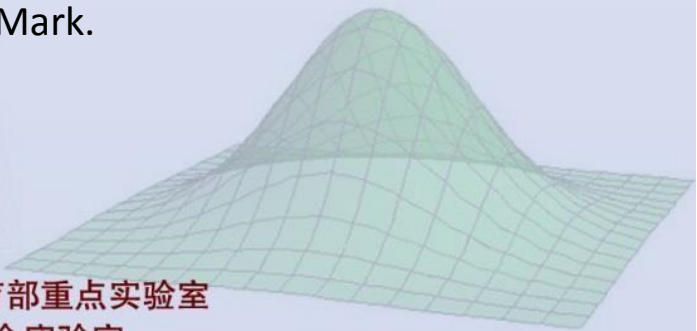
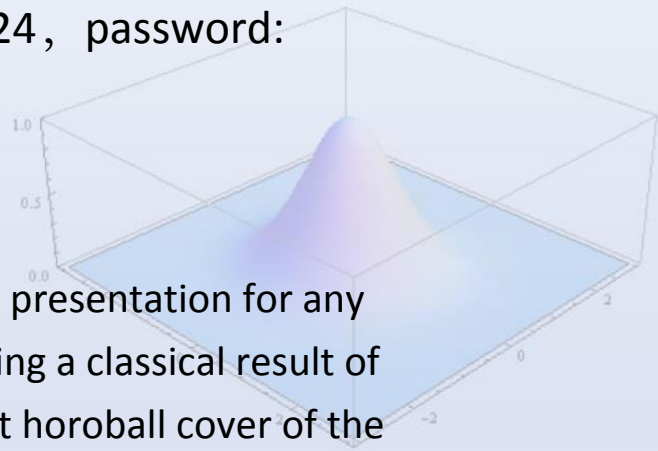
报告人：Julien Paupert (Arizona State University)

时间：2022-12-01 星期四 10:00-11:00

地点：Meeting Zoom ID: 853 0188 1524, password: Fudan2022

报告摘要：

We present a general method to compute a presentation for any cusped hyperbolic lattice Γ , applying a classical result of Macbeath to a suitable Γ -invariant horoball cover of the corresponding symmetric space. As applications we compute presentations for the Picard modular groups $\mathrm{PU}(2,1, \mathcal{O}_d)$ for $d=1,3,7$ and the quaternionic lattice $\mathrm{PU}(2,1, \mathcal{H})$ with entries in the Hurwitz integer ring \mathcal{H} . This is joint work with Alice Mark.



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