



## 复旦大学数学科学学院 数学综合报告会

报告题目: **Combinatorial Yamabe problem with perpendicular ball packings I,II**

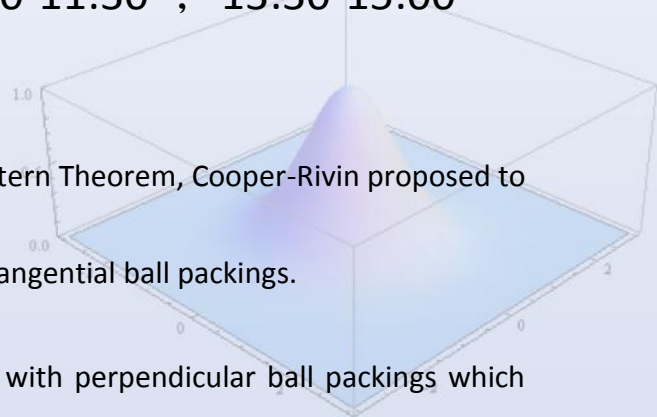
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报告时间: 2017-12-13 星期三 10:00-11:30 ; 13:30-15:00

报告地点: 光华东主楼 2001

摘要: To extend Koebe-Andreev-Thurston's Circle Pattern Theorem, Cooper-Rivin proposed to study the deformation of triangulated 3-manifolds with tangential ball packings.



In this talk, we will follow Cooper-Rivin's approach but with perpendicular ball packings which seem better to handle with. Let  $M$  be a triangulated three-dimensional manifold, we will define a combinatorial analogue of scalar curvature for  $M$  by ball packings. We will raise a combinatorial Yamabe problem and solve it under the assumption that all edge degrees are no bigger than 4.

This is joint works with Wenshuai Jiang.

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