



## 复旦大学数学科学学院 数学综合报告会

报告题目: **Discrete holomorphic quadratic differentials**

报告人: Lam, Wai Yeung

(Brown University)

报告时间: 2018-01-12 星期五 9:30-10:30

报告地点: 光华东主楼 1801

摘要: We introduce holomorphic quadratic differentials on graphs. They are the derivative of cross ratios analogous to the Schwarzian derivative. On one hand, they are related to discrete harmonic functions, circle packings and Luo's vertex scaling in discrete conformal geometry. On the other hand, they unify discrete minimal surfaces via a Weierstrass representation formula. We will briefly discuss the connections in the talk.

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