THE UNIVERSITY   **OF HONG KONG**

Geometry Seminar

Stability conditions and quadratic differentials

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Abstract

We study the 3-Calabi-Yau category D associated to a marked surface S. In the case when S is unpunctured, we introduce its decorated version, whose mapping class group provides a bridge between the spherical twist group of D and the fundamental group of moduli space Quad of quadratic differentials on S. In the case when S is an annuls, we prove that the space of stability conditions on D is the universal cover of Quad. We are working on proving this in full generality.

Date:	September 12, 2016 (Monday)
Time:	4:00 – 5:00pm
Place:	Room 210, Run Run Shaw Bldg., HKU

All are welcome