THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Geometry Seminar

Introduction to geometry and topology of Kleinian groups

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Abstract

Kleinian groups are discrete subgroups of the Lie group $PSL(2, C)$, whose notion was first introduced by Klein and Poincaré. In the 1960s, Ahlfors and Bers started studying deformations of Kleinian groups, which are natural generalisation of quasi-conformal deformations of Riemann surfaces due to Teichmüller. In the 1980s, Thurston introduced, as a part of his uniformisation theorem, the technique of hyperbolic geometry and topology into the study of Kleinian groups, which revolutionised this field. In this talk, which would serve as an introduction to my colloquium talk, I will explain how Kleinian group theory developed from the time of Thurston to today.

Date: December 1, 2016 (Thursday) *

Time: 4:00 – 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome