Speaker: Yusheng Luo

Title: Infinite circle packings and some applications

Abstract: Kobe-Andreev-Thurston’s circle packing theorem gives a characterization on which combinatorics can arise for a finite circle packing. The situation for infinite circle packings is more complicated. In this talk, I will discuss some classical results by Rodin-Sullivan, He, Schramm on the rigidity of certain infinite circle packings, and their applications on approximating the Riemann mapping. I will also discuss constructions of infinite circle packings using Kleinian groups, and some rigidity results for such packings.

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