

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Sinica-NCTS Seminar on Geometry and Several Complex Variables

Speaker : Dr. Taiji Marugame (東京大學 University of Tokyo)

Title : *Volume renormalization for the Blaschke metric on strictly convex domains*

Abstract :

The Blaschke metric is a projectively invariant metric on a strictly convex domain in a flat real projective manifold, which generalizes the Klein model hyperbolic metric. The boundary inherits a geometric structure called conformal Codazzi structure. In this talk, we consider the volume expansion of the Blaschke metric and construct a global conformal invariant of the boundary. We also define the Q-curvature for conformal Codazzi structures, which integrates to that invariant.

Time : 10:30-11:30, Friday, November 18, 2016

Venue : 中研院數學所 607 研討室(台大校區)
Seminar Room 607, Institute of Mathematics (NTU Campus)

Organizer : Jih-Hsin Cheng, Chin-Yu Hsiao (Academia Sinica)

Refreshment : 10:00

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