Analysis Seminar

Title: Uniformization of domains by circle domains

Speaker: Christina Karafyllia (University of Western Macedonia)

Date: Tue 3rd March 2026 at 3:00PM

Location: Online

Abstract: Koebe's conjecture asserts that every domain in the Riemann sphere is conformally equivalent to a circle domain, namely a domain whose boundary consists of points and circles. The conjecture was established for finitely connected domains by Koebe and for countably connected domains by He–Schramm, which is currently the best known result. We verify Koebe's conjecture for the classes of Gromov hyperbolic domains and inner uniform domains. Our result also resolves a conjecture of Bonk–Heinonen–Koskela.

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