



Analysis Seminar

Title: The Denjoy-Wolff theorem for Hilbert geometries

Speaker: B. Lemmens (Kent)

Date: Tue 21st November 2017 at 3:00PM

Location: SCN 125

Abstract: The classical Denjoy-Wolff theorem asserts that all orbits of a fixed point free holomorphic self-mapping of the open unit disc in the complex plane, converge to a unique point in the boundary of the disc. Since the inception of the theorem by Denjoy and Wolff in the nineteen-twenties a variety of extensions have been obtained. In this talk I will discuss some extensions of the Denjoy-Wolff theorem to certain real metric spaces, namely Hilbert geometries. Hilbert geometries are a natural generalisation of Klein's model of the real hyperbolic space, and play an important role in the analysis of linear, and nonlinear, operators on cones.