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Points of non-differentiability for boundary conjugacies between Fuchsian groups

Mark POLLICOTT
Mathematics Institute
University of Warwick
Coventry, CV4 7AL
UNITED KINGDOM

`mpollic@maths.warwick.ac.uk`

Abstract

Given two homeomorphic compact surfaces of constant curvature -1 there is a natural conjugacy between the actions of the corresponding Fuchsian groups on the circle at infinity. Typically, this boundary map is not differentiable (on a set of zero measure). This talk describes the size of this set, in terms of its Hausdorff Dimension, and relates it to the Manhattan curve of Marc Burger.