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HOMOGENEOUS SUBSETS OF A LIPSCHITZ GRAPH AND THE CORONA THEOREM

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Abstract

This paper proves the Corona Theorem to be affirmative for domains in the complex plane bounded by thick subsets of a Lipschitz graph. Specifically, the boundary of these domains E_0 has a Carleson lower density:

$$\Lambda\left(B(z,r)\cap E_0\right) > \epsilon_0 r \quad \text{for all } z \in E_0, \quad \text{and all } r > 0.$$

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