

Math Club Faculty Talk:

Removability of planar sets

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7PM

Zoom (online)

Removability of sets for conformal maps and Sobolev functions has applications in Complex Dynamics, in Conformal Welding, and in other problems that require "gluing" of functions to obtain a new function of the same class. We, therefore, seek geometric conditions on sets that guarantee their removability. In this talk, I will give a survey of old results and discuss some very recent results on the non-removability of the Sierpiński gasket and of Sierpiński carpets.