

Removability of planar sets.

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Ever since the seminal work of Ahlfors and Beurling, the study of removable planar sets with respect to various classes of holomorphic functions has proven over the years to be of fundamental importance for a wide variety of problems in complex analysis and geometric function theory. Questions revolving around necessary and sufficient geometric conditions for removability have held a prominent role in the development of valuable techniques in complex function theory.

In recent years, attention has been drawn to the more modern notion of (quasi)conformal removability, in view of applications to an ever-growing variety of central problems in complex analysis and related areas. In this talk, I will discuss various results related to conformal removability, focusing on applications to conformal welding and to Koebe's uniformization conjecture.