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*Removable sets and Koebe's Conjecture*

It was observed by He and Schramm in the 1990's that conformally removable sets are of fundamental importance in the study of the famous Koebe's Conjecture on the conformal equivalence of arbitrary planar domains with circle domains. More precisely, He and Schramm posed two conjectures on the relationship between the so-called rigidity of a circle domain and the removability of its boundary. In this talk, we shall present a result on countable unions of conformally removable sets. As an application, we show that the two aforementioned conjectures of He and Schramm are in fact equivalent, at least for a large family of circle domains.