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Micah Brame and **Scott Kaschner***, 4600 Sunset Ave, Indianapolis, IN 46208. *Power maps and polynomials: Geometric limits of Julia sets.*

For maps of one complex variable, f , given as the sum of a degree n power map and a fixed degree d polynomial, we explore the geometric limit as n approaches infinity of the set of points that remain bounded under iteration by f . We provide necessary and sufficient conditions for when this limit is the closed unit disk or the unit circle. We also provide a general description of the limiting set when it is neither the disk nor the circle. (Received August 06, 2019)