DIMENSIONS THEORY FOR PARABOLIC LIMIT SETS

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Generally speaking, when a dynamical system has a parabolic point the associated limit sets are more complicated to study than in the uniformly hyperbolic case. I will review some results on the Hausdorff and box dimension of such limit sets and then discuss some new work concerning the Assouad dimension. The key concrete examples will be limit sets of Kleinian groups with parabolic elements, Julia sets for parabolic rational maps and repellers for intermittent intervals maps.