

1116-30-475

Sarah Koch*, kochsc@umich.edu. *Postcritical sets in moduli space.*

Consider the moduli space $\mathcal{M}_{0,n}$ of curves of genus 0 with n marked points. Call a point $x \in \mathcal{M}_{0,n}$ *postcritically special* if there is a postcritically finite rational map $F : \mathbb{P}^1 \rightarrow \mathbb{P}^1$ whose postcritical set P is a representative of the point x in moduli space.

In an email conversation, L. DeMarco posed the following question: in $\mathcal{M}_{0,n}$, what does the locus of postcritically special points look like? We prove that this locus is dense in $\mathcal{M}_{0,n}$, with respect to the complex-analytic topology. (Received September 03, 2015)