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Benjamin Hutz* (benjamin.hutz@slu.edu), Saint Louis, MO. *Automorphism loci for endomorphisms of \mathbb{P}^1* . Preliminary report.

I will present some recent classification results for endomorphisms of \mathbb{P}^1 with nontrivial automorphisms stemming from the groups I worked with at the summer REU program at the Institute for Computational and Experimental Research in Mathematics (ICERM) in the summer of 2019. In characteristic 0, these results concern classifying families of maps of degree 2 – 4 with non-trivial automorphisms. In characteristic $p > 0$, these results concern the realizability of finite subgroups of $PGL_2(\overline{\mathbb{F}}_p)$ as automorphism groups. The focus will be open questions stemming from these projects. (Received September 16, 2019)