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Jane Gilman*, gilman@rutgers.edu. *Discreteness and adjoining roots of primitive generators to a rank two Fuchsian groups.*

We give necessary and sufficient discreteness conditions when a root or a rational power of an algorithmic *stopping generator* is adjoined to a discrete free rank two subgroup of $PSL(2, \mathbb{R})$. We also present results for non-free groups. (Received March 05, 2017)