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Alexandra R Pettet* (apettet@umich.edu), Department of Mathematics, University of Michigan, 2074 East Hall, 530 Church St, Ann Arbor, MI 48109, and **Matt Clay**. *Twisting out fully irreducible automorphisms.*

By a theorem of Thurston, in the subgroup of the mapping class group generated by Dehn twists around two curves which fill, every element not conjugate to a power of one of the twists is pseudo-Anosov. We prove an analogue of this theorem for the outer automorphism group of a free group. (Received March 03, 2009)