Title:	Applications of weak attraction theory in Out($\mathbb{F}N$)
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Abstract:	Given a finite rank free group $\mathbb{F}N$ of rank ≥3 and two exponentially growing outer automorphisms ψ and ϕ with dual lamination pairs $\Lambda\pm\psi$ and $\Lambda\pm\phi$ associated to them, which satisfy a notion of independence described in this paper, we will use the pingpong techniques developed by Handel and Mosher (Subgroup decomposition in Out(F_n), part III: weak attraction theory, 2013) to show that there exists an integer M>0, such that for every $m,n\geq M$, the group $G=\langle\psi m,\phi n\rangle$ will be a free group of rank two and every element of this free group which is not conjugate to a power of the generators will be fully irreducible and hyperbolic.
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