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Title: The asymptotic flow of an E_0 -semigroup.

Abstract: The asymptotic flow of an E_0 -semigroup $\rho = \{\rho_t \mid t \geq 0\}$ acting on a type I_∞ factor M is the W^* -dynamical system $(M_\infty, \rho \upharpoonright_{M_\infty})$, where M_∞ is the tail algebra $\bigcap_{t>0} \rho_t(M)$. We show that for any E_0 -semigroup ρ , and $s > 0$, there exists an uncountable family of pairwise non-conjugate, cocycle perturbations of ρ whose asymptotic flows is a s -periodic type I_∞ W^* -dynamical system.