Title: Self-stabilization in certain infinite-dimensional matrix algebras

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Analytical tools to K-theory; namely, self-stabilization of rapidly decreasing matrices, linearization of cyclic loops, and the contractibility of the pointed stable Toeplitz algebra are discussed in terms of concrete formulas. Adaptation to the $*$-algebra and finite perturbation categories is also considered. The finite linearizability of algebraically finite cyclic loops is demonstrated.

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