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Γ-supercyclicity for c_0-semigroups

For Γ a subset of $\mathbb{C}$, a bounded linear operator T on a Banach space X is said to be Γ-supercyclic if there is a vector x in X such that $\mathrm{Orb}(\Gamma x, T) := \{\lambda T^n x : \lambda \in \Gamma,\ n \in \mathbb{N}\}$ is dense in X. S. Charpentier, R. Ernst and Q. Menet characterized the sets $\Gamma \subset \mathbb{C}$ for which Γ-supercylicity implies hypercyclicity. They also characterized the set Γ for which, if $\mathrm{Orb}(\Gamma x, T)$ is somewhere dense, then x is a hypercyclic vector for T. In this talk, we will be interested in versions of these results for c_0-semigroups.