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## Weakly J-Class Operators and Weak L-Sequential Hypercyclicity

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### Communication Info

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### Abstract

In this paper, we first define the weak extended limit set for a bounded linear operator on a Banach space. Next, we investigate the dynamical properties of linear operators through the weak extended limit set. We show that the extended weak limit set is closely connected with the weak sequential hypercyclicity of a linear operator. Finally, we characterize weak J-class bilateral and unilateral weighted backward shifts with operator weights via their weight sequences, and we show that, in this setting, the weak J-class and the Jclass properties coincide.

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