HYPERCYCLICITY OF WEIGHTED TRANSLATIONS ON ORLICZ SPACES

M. R. AZIMI AND I. AKBARBAGLU

Abstract. In this paper, we study the hypercyclicity of the weighted translation $C_{u,g}$ defined on Orlicz space $L^\Phi(G)$ where $G$ is a locally compact group, $g \in G$ and $u$ is a weight function on $G$. It is shown that when $g \in G$ is a torsion element, then $C_{u,g}$ cannot be hypercyclic. However, for an aperiodic element $g \in G$, necessary and sufficient conditions for $C_{u,g}$ and its adjoint are given to be hypercyclic.


Keywords and phrases: Hypercyclic, weighted translation, locally compact group, Orlicz space.

REFERENCES