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Density of translates in weighted L^p spaces on locally compact groups

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Let G be a locally compact group, and let $1 \leq p < \infty$. Consider the weighted L^p-space $L^p(G,\omega) = \{f : \int |f\omega|^p < \infty\}$, where $\omega : G \to$ R is a positive measurable function. Under appropriate conditions on ω, G acts on $L^p(G,\omega)$ by translations. When is this action hypercyclic, that is, there is a function in this space such that the set of all its translations is dense in $L^p(G,\omega)$? H.Salas (1995) gave a criterion of hypercyclicity in the case $G =$ Z . Under mild assumptions, we present a corresponding characterization for a general locally compact group G. Our results are obtained in a more general setting when the translations only by a subset $S \subset G$ are considered.
Joint work with E. Abakumov (Paris-Est).

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