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Some properties of weighted Orlicz algebras

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Weighted Orlicz spaces are significant generalizations of usual Lebesgue spaces with applications in several branches of mathematics. Recently, A. Osançlıol and S. Öztöp showed that if $L_w^\Phi(G) \subseteq L_w^1(G)$, then $L_w^\Phi(G)$ is a convolution algebra, where G is a locally compact group, Φ is a Young function and w is a weight. They also studied the existence of approximate identity of this weighted algebra and characterized its spectrum by generalized characters. In this talk we will give some other necessary or sufficient conditions for a (weighted) Orlicz space to be a convolution Banach algebra in the context of locally compact groups and hypergroups.