



Armando VILLENA (avillena@ugr.es) Department of Mathematical Analysis, University of Granada 18071 Granada, Spain. *Continuity of operators intertwining with convolution operators.*

ABSTRACT. Let G be a locally compact abelian group, let μ be a complex-valued Borel measure on G , and let T_μ be the corresponding convolution operator on $L^1(G)$. Let X be a Banach space and let S be a continuous linear operator on X . Then we show that every linear operator $\Phi : X \rightarrow L^1(G)$ such that $\Phi S = T_\mu \Phi$ is continuous if and only if the pair (S, T_μ) has not any critical eigenvalue.