



SEMINARIO IMAC DE ANÁLISIS

Conferencia a cargo de
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Weighted Orlicz Algebras on Locally Compact Groups

ABSTRACT: *Let G be a locally compact group with left Haar measure and let w be a weight on G . The weighted Orlicz space determined by a Young function Φ , denoted by $L_w^\Phi(G)$, is a natural generalization of the weighted Lebesgue space $L_w^p(G)$, $1 \leq p \leq \infty$.*

In this talk, we study the Banach algebra structure of the weighted Orlicz space by $L_w^\Phi(G)$ with respect to convolution. We show that, for non-discrete group G , $L_w^\Phi(G)$ admits no bounded approximate identity under some conditions. Further, we characterize all closed left ideals of the weighted Orlicz algebra $L_w^\Phi(G)$ similar to $L_w^1(G)$. Moreover, we describe the spectrum (the maximal ideal space) of the weighted Orlicz algebra for abelian group and show that these algebras are semi-simple. Also, we obtain the known results as a special cases.

This is a joint work with Serap Öztop (Istanbul University).

Fecha: 3 de julio de 2018, a las 13:00 horas

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