

SEMINAR

Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

Fredholm criteria for a class of Fourier pseudodifferential operators with continuous data on Orlicz spaces

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Abstract

We extend the Fredholm criteria for Fourier pseudodifferential operators of the form

$$\sum_{k=1}^n a_k W^0(b_k), \quad W^0(b_k) := F^{-1} b_k F,$$

with continuous functions a_k and continuous symbols b_k , respectively, on the Lebesgue space $L^p(\mathbb{R})$, $1 < p < \infty$, obtained by Roland Duduchava in the late 1970s, to the setting of reflexive Orlicz spaces.

Room Sousa Pinto
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