

SEMINAR

Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

On a singular integral operator with non-Carleman shift and conjugation

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Abstract

On the Hilbert space $\tilde{L}_2(\Gamma)$, $\Gamma = \mathbb{R}, \mathbb{T}$, the singular integral operator with non-Carleman shift and conjugation $K = P_+ + (aI + AC)P_-$ is considered, where P_{\pm} are the Cauchy projectors, $A = \sum_{j=0}^m a_j U^j$, $a, a_j, j = \overline{1, m}$, are continuous functions on Γ , U is the shift operator and C is the operator of complex conjugation. We obtain some estimates for the dimension of the kernel of the operator K .

Link: <https://videoconf-colibri.zoom.us/j/82876506689?pwd=OU56Tn10Q2VUMmZOR1pIVS96djdQOT09>

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