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 $\widetilde{L}_2(\Gamma)$, $\Gamma = \mathbb{R}, \mathbb{T}$, 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=OU56TnlOQ2VUMmZOR1pIVS96djdnQT09

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