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Arens regularity and irregularity of ideals in Fourier and group algebras

Let \mathcal{A} be a weakly sequentially complete Banach algebra containing a bounded approximate identity that is an ideal in its second dual \mathcal{A}^{**} . In this talk, we look at Arens regular and strongly Arens irregular closed ideals of \mathcal{A} . We then characterize such ideals in two key examples: the group algebra $L^1(G)$ of a compact group G , and the Fourier algebra $A(\Gamma)$ of a discrete amenable group Γ .

The results in this talk are based on joint work with M. Filali and J. Galindo