Turkish Journal of Mathematics

🔍 Keywords
🔍 Authors

@

Scientific Journals Home Page

WEAK\star- INVARIANTLY COMPLEMENTED SUBSPACES OF $L^{\infty}(1/\omega)$ AND IDEALS OF $L^1(\omega)$ WITH A BOUNDED APPROXIMATE IDENTITY

Z. ARGÜN, C. TONYALI

Abstract: For a locally compact group G let $L^1(\omega)$ be the weighted group algebra and let X be a weak \star-closed translation invariant subspace of $L^{\infty}(1/\omega)$. In this paper for a certain class of functions we show that the following conditions are equivalent: (i) X is topological invariantly complemented in $L^{\infty}(1/\omega)$; (ii) X is invariantly complemented in $L^{\infty}(1/\omega)$; (iii) The left ideal $X_{\perp}$ has a bounded right approximate identity.