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

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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.

 [Keywords](#)
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