Bhatta, Chet Raj
Uniform version of Wiener-Tauberian theorem for Wiener algebra on a real line. (English)
Zbl 1427.43007

Summary: The Winner-Tauberian theorem for \( \mathbb{R} \) says that the closed translation invariant subspace generated by \( f \in L^1(\mathbb{R}) \) is \( L^1(\mathbb{R}) \) if and only if the Fourier transform \( \hat{f} \) of \( f \) never vanishes. In this paper we prove a uniform version of this result in Winner algebra for real line.

MSC:
43A25 Fourier and Fourier-Stieltjes transforms on locally compact and other abelian groups

Keywords:
Weiner-Tauberian theorem; translation invariant subspace; Wiener algebra; Radon measure