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On the Absolute Convergence of Small Gaps Fourier Series of Functions of φ -bounded Variation

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Abstract:

Let f be a 2π periodic function in $L^1[0, 2\pi]$ and $\sum_{k=-\infty}^{\infty} \hat{f}(n_k) e^{in_k x}$ be its Fourier series with 'small' gaps $n_{k+1} - n_k \geq q \geq 1$. Here we obtain a sufficiency condition for the convergence of the series $\sum_{k \in \mathbb{Z}} |\hat{f}(n_k)|^\beta$

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