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On the Absolute Convergence of Small Gaps Fourier Series of Functions of \$\bigwedge BV^{(p)}\$

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Abstract: Let f be a 2π periodic function in $L^1[0,2\pi]$ and $\sum_{k=-\infty}^{\infty} \widehat{f}(n_k)e^{in_kx}$

be its Fourier series with `small' gaps $n_{k+1}-n_k\geq q\geq 1$. Here we have obtained sufficiency conditions for the absolute convergence of such series if f is of $\bigwedge BV^{(p)}$ locally. We have also obtained a beautiful interconnection

between lacunary and non-lacunary Fourier series.

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