

Title: The pointwise convergence of Fourier Series along lacunary subsequences; On a conjecture of Konyagin.

Abstract: We provide a near-complete classification of the Lorentz spaces Λ_φ for which the sequence $\{S_n\}_{n \in \mathbb{N}}$ of partial Fourier sums is almost everywhere convergent along lacunary subsequences. In particular, we resolve a conjecture stated by Konyagin in his 2006 ICM address.