



An Introduction to the Uncertainty Principle: Hardy's Theorem on Lie Groups (Progress in Mathematics)

Sundaram Thangavelu

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In 1932 Norbert Wiener gave a series of lectures on Fourier analysis at the University of Cambridge. One result of Wiener's visit to Cambridge was his well-known text *The Fourier Integral and Certain of its Applications*; another was a paper by G. H. Hardy in the 1933 *Journal of the London Mathematical Society*. As Hardy says in the introduction to this paper, This note originates from a remark of Prof. N. Wiener, to the effect that "a f and $g [= j]$ cannot both be very small". ... The theorem pair of transforms remains which follow give the most precise interpretation possible of Wiener's remark. Hardy's own statement of his results, lightly paraphrased, is as follows, in which f is an integrable function on the real line and f is its Fourier transform: $x \geq m$ If f and j are both $O(x^{-1/2})$ for large x and some m , then each is a finite linear combination of Hermite functions. In particular, if f and j are $O(x^{-2})$ both $O(e^{-x})$, then $f = j = Ae^{-x}$, where A is a constant; and if one $x \geq 2$ is $O(e^{-x})$, then both are null.

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