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Mathematics > Functional Analysis

Linear independence of timefrequency translates of functions with faster than exponential decay

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We establish the linear independence of time-frequency translates for functions f having one sided decay $\lim_{x\to 0} |f(x)| e^{x} = 0$ for all c>0. We also prove such results for functions with faster than exponential decay, i.e., $\lim_{x\to 0} |f(x)| e^{cx} = 0$ for all c>0, under some additional restrictions.

Subjects: Functional Analysis (math.FA)

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