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We thus obtain explicit examples of functions θ satisfying (A.23) which are not Fourier-Stieltjes transforms.

Note that, if every c_n is real and nonzero, an (unbounded) ψ can be chosen so as to make $\text{Ran } \theta = \{-1, 1\}$; this yields explicit examples of ± 1 -valued functions θ which are not Fourier-Stieltjes transforms. (These are, of course, also obtainable by starting with functions $\text{sgn } \hat{h}$, where $h \in C(G)$, \hat{h} is real-valued and $\hat{h} \notin l^1(\Gamma)$.)

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