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On Bank-Laine Functions

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Abstract. We obtain the following result: Suppose that (a_n) is a sequence of distinct complex numbers such that the imaginary part of a_n is very close to zero and such that for $\epsilon > 0$, we have $|a_m - a_n| > \epsilon|a_n| > 0$ for all $m, n, n \neq m$. Then (a_n) is not a Bank-Laine sequence.

Keywords. Nevanlinna theory, Bank-Laine functions, Oscillation theory.

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