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Erdős, Pál; Ingham, A.

Arithmetical Tauberian theorems (In English)

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Let $\{a_n\}$ be a finite or infinite sequence of real numbers for which $1 < a_1 \leq a_2 \leq \dots, \sum a_n^{-1} < \infty$. The authors deduce the relation $f_0(x) = o(x)$ from $f_0(x) + \sum f_0(x/a_n) = o(x)$, as $x \rightarrow \infty$, under various supplementary conditions on $f_0(x)$ and $\{a_n\}$.

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Classification:

11M45 Tauberian theorems

40E05 Tauberian theorems, general