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On Existence of a Meromorphic Function With Infinitely Many of Deficient Functions

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Abstract: Let $\{a_n(z) : \{a_n(z)\}_n^w, \leq \text{infinite}\}$ be a finite or denumerable set of entire functions satisfying $T(r,a_n) \leq d_0 r^\alpha + d_n$, $n=1,2,\ldots$, where $d_o, d_n > 0$ do not depend on $r, 0 < \alpha < 1$. In this paper we show that there is a meromorphic function of order 1 and normal type having $a_1(z), a_2(z), \ldots, a_n(Z), \ldots$, as deficient functions.

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