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On Mues conjecture and Picard values. (English) Zbl 0777.30017
Sci. China, Ser. A 36, No. 1, 28-35 (1993).

Let f be a transcendental meromorphic function. Then

(i) $\sum_{a \in \mathbb{C}} \delta(a, f^{(k)}) \leq 1$ holds for all $k \geq 0$ with at most four exceptions.

(ii) For $n \geq 3$, $k \geq 0$ $(f^n)^{(k)}$ assumes every complex value other than 0 infinitely often. Improvements of *W. K. Hayman's* bound on $T(r, f)$ in terms of $N(r, 1/f)$ and $N(r, 1/(f^{(k)} - 1))$ [Meromorphic functions (1964; Zbl 0115.062)] are also given. These results are important improvement of previous work by many authors.

Reviewer: [W.H.Fuchs \(Ithaca\)](#)

MSC:

30D35 Value distribution of meromorphic functions of one complex variable,
Nevanlinna theory

Cited in **18** Documents

Keywords:

[Mues conjecture](#); [Picard values](#)