

**Langley, J. K.**

**On normal families and a result of Drasin.** (English) Zbl 0556.30025  
Proc. R. Soc. Edinb., Sect. A 98, 385-393 (1984).

Let  $n$  be an integer not less than 5, and let  $a$  and  $b$  be complex numbers with  $a \neq 0$ . Let  $f$  be a family of functions meromorphic in a domain  $D$  such that for each  $f$  in  $F$ ,  $f'(z) - af^n(z) = b$  has no solutions in  $D$ . Then  $F$  is a normal family in  $D$ . Some lemmas of *Gu Yongxing (Y. Ku)* [Sci. Sin. 21, 431-445 (1978)] are used in the proof. *D. Drasin* [Acta Math. 122, 231-263 (1969; [Zbl 0176.028](#))] proved the analogous theorem for analytic functions in  $D$ .

Reviewer: [L.R.Sons](#)

**MSC:**

[30D45](#) Normal functions of one complex variable, normal families

Cited in **9** Documents

**Full Text:** [DOI](#)

**References:**

- [1] Yang, Sci.Sinica 14 pp 1262- (1965)
- [2] Sci. Sinica 21 pp 431- (1978)
- [3] DOI: [10.1007/BF02392012](#) · [Zbl 0176.02802](#) · [doi:10.1007/BF02392012](#)
- [4] Hayman, Meromorphic Functions (1964)
- [5] DOI: [10.2307/1969890](#) · [Zbl 0088.28505](#) · [doi:10.2307/1969890](#)
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