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Repulsive periodic points of meromorphic functions. (English) [Zbl 0865.30040](#)
[Complex Variables, Theory Appl.](#) 31, No. 1, 75-79 (1996).

One well-known and fundamental result in iteration theory of rational, entire and meromorphic functions states that the repulsive periodic points are dense in the Julia set. Whereas the proof in the rational case is elementary, the original proofs in the other cases (first given by I. N. Baker) both use Ahlfors' theory on covering surfaces. Recently W. Schwick gave a proof in the entire case using only standard Nevanlinna theory. In the present paper it is shown that his proof extends easily to meromorphic functions with at most countably many essential singularities in spite of the fact that the Julia set of meromorphic functions arise in a rather different way. Another result deals with composite meromorphic functions.

Reviewer: [A.Bolsch \(Berlin\)](#)

MSC:

- [30D05](#) Functional equations in the complex plane, iteration and composition of analytic functions of one complex variable Cited in **11** Documents
- [37F99](#) Dynamical systems over complex numbers
- [30D30](#) Meromorphic functions of one complex variable, general theory
- [39B32](#) Functional equations for complex functions

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