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**The meromorphic non-integrability of the planar three-body problem. (La non-intégrabilité méromorphe du problème plan des trois corps.)** (French) [Zbl 0964.70011](#)

C. R. Acad. Sci., Paris, Sér. I, Math. 331, No. 3, 241-244 (2000).

Summary: We study the planar three-body problem and prove the non-existence of a complete set of complex meromorphic first integrals in a neighborhood of Lagrangian solution.

**MSC:**

[70F07](#) Three-body problems

[70H07](#) Nonintegrable systems for problems in Hamiltonian and Lagrangian mechanics

Cited in **6** Documents

**Keywords:**

meromorphic non-integrability; non-existence of meromorphic first integrals; planar three-body problem; Lagrangian solution

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