ON THE DYNAMICS OF FAMILY OF TWO-DIMENSIONAL DIFFERENTIAL SYSTEMS

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Abstract:
In this work we study the existence of first integrals, and then we prove the nonexistence of periodic orbits, then consequently the non-existence of limit cycles of two-dimensional Kolmogorov system. We introduce concrete example exhibiting the applicability of our result.

Keywords: Kolmogorov systems, periodic orbits, limit cycle, Integrability.

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References


