A new amplitude-frequency formula for non-conservative oscillators

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Abstract

This paper formalize the existence's proof of first-integrals for any second order ODE, allowing to discriminate periodic orbits. Up to the author's knowledge, such a powerful result is not available in the literature providing a tool to determine periodic orbits/limit cycles in the most general scenario.

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 $\begin{tabular}{lll} A_T_Garcia.pdf & available & at & https://authorea.com/users/374830/articles/492260-a-new-amplitude-frequency-formula-for-non-conservative-oscillators & available & avail$