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**Exact solution of the Landau-Lifshitz equations for a radiating charged particle in the Coulomb potential.** (English) [Zbl 1159.78002]


The classical nonrelativistic Landau-Lifshitz equations of motion for a charged particle moving under the influence of a Coulomb potential is solved in terms of the Painlevé transcendent of type II. It is shown that a negatively charged classical particle will spiral into a nucleus.

Reviewer: Cornelis van der Mee (Cagliari)

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**References:**


[3] Rohrlich, F., Classical charged particles, (1990), Addison-Wesley Reading, MA · Zbl 0866.53056


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