ERRATA

Erratum: Nonuniqueness of the Lorentz-Dirac equation with the free-particle asymptotic condition [Phys. Rev. E 51, 680 (1995)]

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The last sentence of the paper is incorrect in that there is no rigorous claim that the presence of a singularity in the force prevents the existence of physical solutions. There is only one qualitative idea in this sense in Ref. [1], in which it is said, about the existence of physical solutions, that (see also Ref. [2]) "… difficulty occurs when a singularity actually lies on the true trajectory."

Other authors comment that only certain singularities cause problems. For example, Parrott (Ref. [3]) gives a sufficient condition for a force field with a singularity to force the particle to run away, prohibiting any physical solution, but this sufficient condition does not, indeed, apply to my "abrupt potential."

^[1] W. E. Baylis and J. Huschilt, Phys. Rev. D 13, 3262 (1976).

^[2] G. N. Plass, Rev. Mod. Phys. 33, 37 (1961).

^[3] S. Parrot, Found. Phys. 23, 1093 (1993).