On Dirac equation for a Coulomb scalar, vector, and tensor interaction

Omar Mustafa

Department of Physics, Eastern Mediterranean University,

G Magusa, North Cyprus, Mersin 10,Turkey

E-mail: omar.mustafa@emu.edu.tr,

Tel: +90 392 630 1314,

Fax: +90 392 3651604

October 24, 2018

Abstract

In their recent paper (Inter. J. Mod. Phys. A **26** (2011) 1011), Zarrinkamar and coauthors have considered the radial Dirac equation for a Coulomb scalar, vector and tensor interaction. The exact solutions for the energy eigenvalues they have reported for spin-symmetry and pseudo-spin symmetry were mishandled and are incorrect eigenvalues, therefore.

.In their recent paper, Zarrinkamar, Hassanabadi and Rajabi (Inter. J. Mod. Phys. A 26 (2011) 1011), have considered the radial Dirac equation for