

Errata

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**RELATIVISTIC CORRECTIONS TO THE LAGRANGIAN FOR INTERACTING CHARGED PARTICLES, Demetrios D. Dionysiou, International Journal of Theoretical Physics, 20, 1 (1981)**

On p. 9, the function  $X$  should be supplied with a minus sign. This changes the second signs of equations (2.31) and (2.32). Also, in equations (2.35) and (2.37) the square brackets should read

$$\left[ 2R^2\bar{v}_j - R\bar{n}(\bar{R} \cdot \bar{v}_j) \right] \text{ or } R^2 \left[ 2\bar{v}_j - \bar{n}(\bar{n} \cdot \bar{v}_j) \right]$$

**RELATIVITY AND QUANTUM MECHANICS, Hüseyin Yilmaz, International Journal of Theoretical Physics, 21, 871 (1982)**

In a recent communication it was implied that if  $D_\alpha K_{\mu\nu}^\alpha = 0$ ,  $K_{\mu\nu}^\alpha = -K_{\nu\mu}^\alpha$  then  $M_{\mu\nu} = \int (-g)^{1/2} \kappa_{\mu\nu}^\alpha dV_\alpha$  would be conserved. This turns out to be a special case. The general form is  $M_{\mu\nu} = \int (-g)^{1/2} \kappa_{\mu\nu}^\alpha dV_\alpha$ , where

$$K_{\mu\nu}^\alpha = \kappa_{\mu\nu}^\alpha + \eta_{\mu\nu}^\alpha \\ - \Gamma_{\alpha\mu}^\nu \kappa_{\lambda\nu}^\alpha + \Gamma_{\alpha\nu}^\lambda \kappa_{\lambda\mu}^\alpha + D_\alpha \eta_{\mu\nu}^\alpha = 0$$