Errata

Erratum: Two-body Dirac equation for semirelativistic quarks [Phys. Rev. D 26, 2902 (1982)]

R. W. Childers

(1) Equation (4.5) is valid only for the PMT case. For the VMT case the corresponding equations are

$$F_1 = -\sqrt{j}\,G_{A1} + \sqrt{j+1}\,F_{B2} \ ,$$

$$F_2 = -\sqrt{j+1}\,G_{B2} - \sqrt{j}\,F_{A1} \ ,$$

$$F_3 = \sqrt{j}\,G_{B2} + \sqrt{j+1}\,F_{A1} \ ,$$

$$F_4 = \sqrt{j+1}\,G_{A1} - \sqrt{j}\,F_{B2} \ .$$

(2) The line below Eq. (4.10) should read "where $m_0 = m_1 \mp m_2$, $m_R = m_1 \pm m_2$, etc."
(3) Equation (A1) of the Appendix should read

$$\boldsymbol{\alpha}_2 \cdot \mathbf{p}_2 \psi = -i\hat{\mathbf{r}} \cdot \boldsymbol{\alpha}_2 \left(\frac{\partial \psi}{\partial r} + \frac{2}{r}\psi \right) - \frac{2i}{r}(\mathbf{L} \cdot \boldsymbol{\Sigma}_2)(\mathbf{r} \cdot \boldsymbol{\alpha}_2)\psi \ . \tag{A1}$$

(4) In Eqs. (A5) and (A6), $\mathbf{S}_2$ should be replaced by $\boldsymbol{\Sigma}_2$.

Erratum: Time variation of coupling constants in Kaluza-Klein cosmologies [Phys. Rev. D 31, 1904 (1985)]

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Equation (23) of our paper is incorrect. The solution to Eq. (21) should be

$$R_2(t)^2 = \frac{\Delta - 2B\alpha(t) + \alpha(t)^2}{4c\alpha(t)}, \quad c > 0 \ , \tag{1a}$$

$$R_2(t)^2 = -\frac{1}{2|c|}[|B| + \sqrt{\Delta}\sin(2\sqrt{-c}\,t + \beta)], \quad c < 0 \ , \tag{1b}$$

where the various constants in the above are defined by

$$A = \pi G(12e^2 + \lambda)/2e^4 \ , \tag{2a}$$

$$B = -\frac{\lambda}{2e^2} - k_2 - \frac{\lambda \pi G}{e^2}\phi_0{}^2 \ , \tag{2b}$$

$$c = 2\pi G\left(\frac{\lambda(\phi_0{}^2)^2}{4} + \Lambda \right) + \frac{\lambda}{2}\phi_0{}^2 \ , \tag{2c}$$

$$\Delta = B^2 - 4Ac \ , \tag{2d}$$

$$\alpha(t) \equiv f(R_{20}) \exp(\pm 2\sqrt{c}\,t) \ , \tag{2e}$$

$$f(R_{20}) = 2[c(A + BR_{20}{}^2 + R_{20}{}^4)^{1/2} + 2cR_{20}{}^2 + B] \ , \tag{2f}$$

$$\beta = \sin^{-1}\frac{2cR_{20}{}^2 + B}{\sqrt{\Delta}} \ . \tag{2g}$$

The subsequent analysis and the conclusions need significant revision. Details will be published elsewhere.

