Errata

Erratum: Maximal extension of a nonsingular solution in a generalized theory of gravitation [Phys. Rev. D 17, 396 (1978)]

G. Kunstatter and J. W. Moffat

Equation (4.1) should read

$$ds^2 = f^2(r', t')(dt'^2 - dr'^2) - r^2(r', t')d\Omega^2 . \quad (4.1)$$

Equation (4.11) should read

$$\frac{\partial r^*}{\partial r} = \pm \left[\left(1 - \frac{2m}{r} + \frac{4\pi Q^2}{r^2}\right)\left(1 - \frac{a^4}{r^4}\right)^{1/2}\right]^{-1}$$
$$= \pm \frac{r^4}{(r - r_+)(r - r_-)(r^4 - a^4)^{1/2}}, \quad (4.11)$$

Erratum: Relativistic model of a spherical star emitting neutrinos [Phys. Rev. D 17, 1924 (1978)]

I. Damião Soares

1. Equation (4.21) should read

$$4\dot{m} = \frac{\eta^2 \chi}{R_1^{\,2}(R_s)}\left(1 - \frac{2m(u)}{r_s(u)}\right).$$

2. On page 1932, the equation following Eq. (A6) should read

$$\alpha\varphi' + \left(\frac{\alpha'}{2} + \frac{\alpha\beta'}{\beta}\right)\varphi = 0 .$$

3. On page 1926 the equation following Eq. (2.19) should read

$$\rho(r) = -\frac{6}{\kappa}\frac{R_2''}{R_2} R_1^{\,2} .$$

Erratum: Computation of the quantum effects due to a four-dimensional pseudoparticle [Phys. Rev. D 14, 3432 (1976)]

G. 't Hooft

1. In the transition towards collective coordinates, page 3442, we inserted a factor $1/\sqrt{\pi}$ [Eq. (9.4)] for each collective coordinate because these have to be normalized with a Gaussian integral. However, the relevant Gaussian integrals here are all of the type

$$\int \exp(-\tfrac{1}{2}x^2)dx = \sqrt{2\pi} ;$$

thus the expressions must be multiplied by a factor $1/\sqrt{2}$ for each collective coordinate. We have eight of these. Equation (9.6) must be divided by 4 (both left and right), Eqs. (10.3) and (10.5) by $\sqrt{2}$, Eqs. (11.7), (11.10), (11.17), (11.18), and (11.28) by $2\sqrt{2}$, and in the final expressions (12.1), (12.5), (13.8), and (15.1) we must replace

2^{14} by 2^{10}.

2. In the transition from (6.13) to (6.15) the term

$$\sum_{s=1}^{2t+1} s(2t+1-s)(s-t-\tfrac{1}{2})\ln s$$

was erroneously multiplied by $t(t+1)$. This error propagates into Eq. (7.6) and Eq. (12.4) for $\alpha(t)$. The explicitly computed values for $\alpha(t)$ in Table I are free of this error. The author thanks F. R. Ore for making this observation.[1]

3. In Eq. (3.10) $1/\pi$ must be replaced by $2/\pi$. This has no further consequences.

In a report by Y. Iwasaki[2] it is suggested that certain zero modes of the ghost field in the background gauge could alter our conclusions. However, a careful reader of our paper will realize that these modes have been taken into account correctly.

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[1]F. R. Ore, Phys. Rev. D 16, 2577 (1977).
[2]Y. Iwasaki, Princeton Institute for Advanced Studies report, 1978 (unpublished).