Errata

Erratum: Self-energy of a thin charged shell in general relativity
[Phys. Rev. D 42, 4254 (1990)]

Markus Heusler, Claus Kiefer, and Norbert Straumann

In reference to our recent paper on the self-energy of a thin charged shell in general relativity, we want to note that, subsequent to publication, related papers came to our attention which we had overlooked and where some of our results had already been derived. Our Eq. (26) for the total energy of the shell was given by Kuchař [1] and, in a more general form, by Chase [2]. Kuchař also found the lower bound (29) for the radius of the shell. We are grateful to Charles Curry for bringing these papers to our attention.

Furthermore, we would like to mention the following point. In our paper we restricted ourselves to the case where the shell is outside the outer Nordström horizon, i.e., where the charge satisfies $|Q| \leq \sqrt{G}\, M$. In the meantime, we received a letter from Don Page in which he demonstrates how one can derive without this restriction the following generalized form of our energy bound (31) directly from the energy equation (26):

$$M \geq \frac{M_0}{2} + \frac{Q^2}{2R} \; .$$

We are grateful to Don Page for pointing this out to us.

[1] K. Kuchař, Czech, J. Phys. B **18**, 435 (1968).   [2] J. E. Chase, Nuovo Cimento **B67**, 136 (1970).

Erratum: Trace anomaly in $\lambda\phi^4$ theory near a fixed point
[Phys. Rev. D 40, 444 (1989)]

Satish D. Joglekar and Achla Mishra

(i) Equation (3.2) should read

$$K(\lambda) = \exp\left[\int_{\lambda^*+\delta}^{\lambda} \frac{2\gamma_m(\lambda')}{\beta(\lambda')}d\lambda'\right]\left[K(\lambda^*+\delta) + \int_{\lambda^*+\delta}^{\lambda} \frac{2\gamma_m(\lambda')Z_{14}^1(\lambda')}{\beta(\lambda')}\exp\left[-\int_{\lambda^*+\delta}^{\lambda'} \frac{2\gamma_m(\lambda'')}{\beta(\lambda'')}d\lambda''\right]\right] \; .$$

(ii) Equation (3.4) should read

$$K(\lambda) \simeq K(\lambda^*+\delta)\left[\frac{\lambda-\lambda^*}{\delta}\right]^{\alpha} + Z_{14}^1(\lambda^*)\left[\frac{\lambda-\lambda^*}{\delta}\right]^{\alpha} - Z_{14}^1(\lambda^*) \; .$$

A similar correction is needed in Eq. (3.11).
(iii) Equation (3.5) should read

$$K(\lambda) + Z_{14}^1(\lambda^*) = (\lambda-\lambda^*)^{\alpha}[K(\lambda^* \daleth \, \mathcal{S})\delta^{-\alpha} + Z_{14}^1(\lambda^*)\delta^{-\alpha}] \; .$$

Erratum: Two-dimensional Euclidean anomalous effective actions in exactly solvable Abelian models
[Phys. Rev. D 43, 4088 (1991)]

A. Bassetto, L. Griguolo, and R. Soldati

A page was missing from the original printed version of this paper. The entire corrected version of the article is printed on the following pages.