Linear approximation in a new theory of gravity

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Corrigenda

Linear approximation in a new theory of gravity
Mann R B and Moffat J W 1981 *J. Phys. A: Math. Gen.* **14** 2367–76

On page 2372, equation (3.20) should read:

$$\langle t_{\mu\nu}\rangle = \frac{k_\mu k_\nu}{16\pi^2}\left(e^{(\beta\gamma)}e^*_{(\beta\gamma)} - \tfrac{1}{2}|\eta^{\beta\gamma}e_{(\beta\gamma)}|^2 + e^{[\beta\gamma]}e^*_{[\beta\gamma]}\right)$$

and so equation (3.21) becomes

$$\langle t_{\mu\nu}\rangle = \frac{k_\mu k_\nu}{8\pi}\left(|e_{11}|^2 + |e_{(12)}|^2 - |e_{[12]}|^2\right).$$

The discussion and conclusions of § 4 are still valid; for $C_{[\mu\nu]} = 0$ the energy is positive definite and only quadrupole and higher-pole radiation exists. For $C_{[\mu\nu]} \neq 0$ the energy is only positive definite for the *real* version of the theory, since the last term of equation (3.21) changes sign.

Equation (5.1) should read

$$\mathscr{A} = \frac{16\pi}{q^2}\left(2\left(T^{(\mu\nu)}t_{(\mu\nu)} - \tfrac{1}{2}Tt + C^{[\mu\nu]}C_{[\mu\nu]}\right)\right),$$

and equation (5.4) should read

$$\mathscr{A} = \frac{16\pi}{q^2}\left(Mm - 2\alpha^2 q^2 \boldsymbol{J}\cdot\boldsymbol{j}\right).$$

The sentence after equation (1.7) should read: 'These two equations show that $\Gamma_\mu \equiv \Gamma^\lambda_{[\mu\lambda]} = 0$'. In the references, Moffatt should be replaced by Moffat.

Roughening transition, surface tension and equilibrium droplet shapes in a two-dimensional Ising system

Avron J E, van Beijeren H, Schulman L S and Zia R K P *J. Phys. A: Math. Gen.* **15** L81

In addition to the reference J E Avron *et al* (1980) on roughening transition in He crystals, see also the following:

Andreev A and Parshin A Ya 1978 *Zh. Exp. Teor. Fiz.* **75** 1511
Balibar B and Castaing B 1980 *J. Physique* **41** 329
Keshishev K O, Parshin A Ya and Babkin A V 1981 *Zh. Exp. Teor. Fiz.* **80** 716

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