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Linear approximation in a new theory of gravity

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1982 J. Phys. A: Math. Gen. 15 1055

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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:

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

and so equation (3.21) becomes

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

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

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

and equation (5.4) should read

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

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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