

## Non-linear wave equations in a curved background space

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1978 J. Phys. A: Math. Gen. 11 2131

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## Corrigenda

### A new expression for harmonic oscillator brackets

Dobeš J 1977 *J. Phys. A: Math. Gen.* **10** 2053–9

Equation (6) should read as follows

$$\langle n|NL; \lambda |n_1 l_1 n_2 l_2; \lambda \rangle_D = \frac{\sqrt{\pi}}{(1+D)^{2l}} \sum_{m=0}^l Q_m T_m.$$

### Non-linear wave equations in a curved background space

Radmore P M and Stephenson G 1978 *J. Phys. A: Math. Gen.* **11** L149–52

On p L150, equations (14), (15) and (16) should read as follows:

$$\frac{E_\alpha}{4\pi} = \int_{\alpha r_+}^{\infty} (r^2 - 2m\alpha r + e^2 \alpha^2) \frac{1}{\alpha} \left( \frac{d\Phi}{dr} \right)^2 dr + \int_{\alpha r_+}^{\infty} f(\Phi) \frac{r^2}{\alpha^3} dr. \quad (14)$$

$$\begin{aligned} \frac{1}{4\pi} \frac{dE_\alpha}{d\alpha} = & \int_{\alpha r_+}^{\infty} (-2mr + 2e^2 \alpha) \frac{1}{\alpha} \left( \frac{d\Phi}{dr} \right)^2 dr + \int_{\alpha r_+}^{\infty} (r^2 - 2m\alpha r + e^2 \alpha^2) \left( -\frac{1}{\alpha^2} \right) \left( \frac{d\Phi}{dr} \right)^2 dr \\ & + \int_{\alpha r_+}^{\infty} f(\Phi) \left( -\frac{3r^2}{\alpha^4} \right) dr - \frac{r_+^3}{\alpha} f(\Phi) \Big|_{r=\alpha r_+} \end{aligned} \quad (15)$$

$$\frac{1}{4\pi} \frac{dE_\alpha}{d\alpha} \Big|_{\alpha=1} = -I_1 - 3I_2 + I_3 - r_+^3 f(\Phi) \Big|_{r=r_+} \quad (16)$$