

**Erratum: Black holes in  $f(R)$  theories  
[Phys. Rev. D **80**, 124011 (2009)]**A. de la Cruz-Dombriz, A. Dobado, and A. L. Maroto  
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On page 124011-4, second column, the equation reads

$$V(r) = \frac{Q}{r}, \quad \lambda(r) = \mu(r) = 1 - \frac{2G_4M}{r} + \frac{(1 + f'(R_0))Q^2}{r^2} - \frac{R_0}{12}r^2.$$

Notice that unlike the EH case, the contribution of the black hole charge to the metric tensor is corrected by a  $(1 + f'(R_0))$  factor.

It should read

$$V(r) = \frac{Q}{r}, \quad \lambda(r) = \mu(r) = 1 - \frac{2G_4M}{r} + \frac{Q^2}{(1 + f'(R_0))r^2} - \frac{R_0}{12}r^2.$$

Notice that unlike the EH case, the contribution of the black hole charge to the metric tensor is corrected by a  $(1 + f'(R_0))^{-1}$  factor.

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