Correction to: Newtonian Fractional-Dimension Gravity and MOND

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The original version of this article contained a mistake in Equation (19). The divergence of a vector field is obviously a scalar field, even when this operator is acting on a D-dimensional space. The correct equation is the following:

$$\begin{aligned} \operatorname{div}_D \mathbf{F} &= \nabla_D \cdot \mathbf{F} = \left[\frac{1}{r^{D-1}} \frac{\partial}{\partial r} (r^{D-1} F_r) \right] + \left[\frac{1}{r \sin^{D-2} \theta} \frac{\partial}{\partial \theta} (\sin^{D-2} \theta F_\theta) \right] \\ &\quad + \left[\frac{1}{r \sin \theta \sin^{D-3} \varphi} \frac{\partial}{\partial \varphi} (\sin^{D-3} \varphi F_\varphi) \right] \\ &= \left[\frac{\partial F_r}{\partial r} + \frac{(D-1)}{r} F_r \right] + \frac{1}{r} \left[\frac{\partial F_\theta}{\partial \theta} + \frac{(D-2)}{\tan \theta} F_\theta \right] \\ &\quad + \frac{1}{r \sin \theta} \left[\frac{\partial F_\varphi}{\partial \varphi} + \frac{(D-3)}{\tan \varphi} F_\varphi \right], \end{aligned} \quad (19)$$

for a vector field $\mathbf{F} = F_r \hat{\mathbf{r}} + F_\theta \hat{\boldsymbol{\theta}} + F_\varphi \hat{\boldsymbol{\varphi}}$ in spherical coordinates.

The original article can be found online at <https://doi.org/10.1007/s10701-020-00389-7>.

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