**Erratum: Unifying renormalization group
and the continuous wavelet transform
[Phys. Rev. D **93**, 105043 (2016)]**

M. V. Altaisky

(Received 12 February 2022; published 28 February 2022)

DOI: [10.1103/PhysRevD.105.049901](https://doi.org/10.1103/PhysRevD.105.049901)

This erratum addresses misprints in the paper “Unifying renormalization group and the continuous wavelet transform” by M. V. Altaisky published in [Phys. Rev. D **93**, 105043 \(2016\)](#).

On page 4 of this paper misprints have been found in the right-hand side of Eq. (18). The value of parameter α is different for Eqs. (18) and (19); in Eq. (18) $\alpha = As$, not $\alpha = Am$ as in Eq. (19). The correct form of the system of these two equations should be

$$\frac{\partial \lambda}{\partial \mu} = 3\lambda^2 \alpha^2 \frac{\partial X_1^4}{\partial \alpha^2} = \frac{3\lambda^2}{16\pi^2} \frac{1 - e^{-\alpha^2}}{\alpha^2} e^{-\alpha^2}, \quad \text{where } \alpha = As \quad (18)$$

$$\frac{1}{m^2} \frac{\partial m^2}{\partial \mu} = \frac{\lambda}{32\pi^2 \alpha^2} - \frac{\lambda}{16\pi^2} + \frac{\lambda}{16\pi^2} 2\alpha^2 e^{2\alpha^2} \text{Ei}_1(2\alpha^2), \quad (19)$$

where $\alpha = Am$.