**Erratum: One loop corrected conformally coupled scalar mode
equations during inflation
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Here we report a few numerical errors that we found after the publication of this manuscript. The conclusion of the paper is not affected by the correction of these numerical factors.

First, the d_i 's in Eqs. (35–39) should be changed to

$$d_1 = \frac{H^{D-4}}{(4\pi)^{\frac{D}{2}}} \left\{ -\frac{(D-2)}{2(D-4)(D-3)(D-1)} + \frac{1}{6}\gamma + \mathcal{O}(D-4) \right\}, \quad (1)$$

$$d_2 = \frac{H^{D-4}}{(4\pi)^{\frac{D}{2}}} \left\{ \frac{8D^8 - 127D^7 + 782D^6 - 2465D^5 + 4386D^4 - 4536D^3 + 2848D^2 - 1016D + 192}{2^4(D-4)(D-3)(D-1)^3} \right. \\ \left. - \frac{327}{80} - \frac{98}{9}\gamma + \mathcal{O}(D-4) \right\}, \quad (2)$$

$$d_3 = \frac{H^{D-4}}{(4\pi)^{\frac{D}{2}}} \left\{ \frac{45D^6 - 650D^5 + 3435D^4 - 8520D^3 + 10114D^2 - 4456D - 178}{2^5 5(D-4)(D-3)(D-1)} \right. \\ \left. - \frac{33421}{3600} + \frac{2163}{80}\gamma + \mathcal{O}(D-4) \right\}, \quad (3)$$

$$d_4 = \frac{H^{D-4}}{(4\pi)^{\frac{D}{2}}} \left\{ -\frac{36D^7 - 459D^6 + 2070D^5 - 7695D^4 + 14290D^3 + 316D^2 - 20804D + 7440}{2^3 3^2(D-4)(D-3)(D-1)^2} \right. \\ \left. + \frac{2759}{540} - \frac{2327}{9}\gamma + \mathcal{O}(D-4) \right\}, \quad (4)$$

$$d_5 = \frac{H^{D-4}}{(4\pi)^{\frac{D}{2}}} \left\{ -\frac{(D-2)^2}{(D-4)(D-3)(D-1)} + \frac{2}{3}\gamma + \mathcal{O}(D-4) \right\}. \quad (5)$$

Second, some numerical factors in Eqs. (56) and (58) are affected by these changes in Eqs. (35–39) and should be changed to

$$\tilde{u}_{\text{nonlocal}} = \tilde{u}_0 + \kappa^2 \tilde{u}_{1\text{nonlocal}} + \mathcal{O}(\kappa^4), \\ \sim \frac{1}{\sqrt{2k}} \left\{ 1 - \frac{\kappa^2 H^2}{\pi^2} \left[-\frac{3603}{2^9 \cdot 15} a \ln(a) + \frac{50033}{2^{10} \cdot 15} a \right] \right\}. \quad (6)$$

$$u_{\text{CC}} \sim \frac{1}{\sqrt{2k}} \left\{ \frac{1}{a} + GH^2 \left[\frac{3603}{2^5 \cdot 15\pi} \ln(a) - \frac{50033}{2^6 \cdot 15\pi} - \left(\Delta c_4 - \frac{3}{4} \right) \frac{\ln(a)}{a} \right] + \mathcal{O}(G^2 H^4) \right\}. \quad (7)$$

Third, the sentence in the beginning of Appendix A should be changed to “Table I uses $\tilde{\kappa}^2 \equiv (\frac{D-2}{8(D-1)})^2 \kappa^2$ and Table III uses $\tilde{\kappa}^2 \equiv \frac{D-2}{8(D-1)} \kappa^2$.” This leads to two more changes in Table III: In the headline of Table III in Appendix A, “Coeff. of $\frac{\tilde{\kappa}^2 H^4}{(4\pi)^4}$,”

should be “Coeff. of $\frac{\tilde{k}^2 H^4}{(4\pi)^4}$.” The second column of the first line of Table III should be 0. The first entry of Table III now reads as follows:

External operators	Coeff. of $\frac{\tilde{k}^2 H^4}{(4\pi)^4}$
$(aa')^3 \square^3 / H^2$	0

Fourth, in the caption of Table VIII and Table X in Appendix D, “ $-\frac{\tilde{u}(0,k)}{a^2} \frac{iH^8}{(4\pi)^2}$ ” should be changed to “ $-\frac{\tilde{u}(0,k)}{a^2} \frac{iH^8}{(4\pi)^4}$ ”. That is, the power of (4π) is 4 not 2.

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