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Erratum: Intrinsic alignment-lensing interference as a contaminant of cosmic shear [Phys. Rev. D 70, 063526 (2004)]

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Several of the equations in this paper contained errors related to the conversion factor between the density perturbation and the primordial potential; there should be some additional factors of a^2 and $\bar{\rho}/\bar{D}$. The conclusions of the paper are unchanged. The corrected equations should read as follows.

Equation (14) should read

$$\Psi_P(\mathbf{k}) = -4\pi G \frac{\bar{\rho}(z)}{\bar{D}(z)} a^2 k^{-2} \delta_{\rm lin}(\mathbf{k}).$$

Equation (15) should read

$$\tilde{\gamma}(\mathbf{k}) = \frac{C_1\bar{\rho}}{\bar{D}} a^2 \int \frac{(k_{2x}^2 - k_{2y}^2, 2k_{2x}k_{2y})}{k_2^2} \delta_{\rm lin}(\mathbf{k}_2)\left[\delta^{(3)}(\mathbf{k}_1) + \frac{b_g}{(2\pi)^3}\delta_{\rm lin}(\mathbf{k}_1)\right] d^3\mathbf{k}_1.$$

Equation (16) should read

$$P^{EE}_{\tilde{\gamma}^I}(k) = \frac{C_1^2\bar{\rho}^2}{\bar{D}^2} a^4 \left\{P^{\rm lin}_\delta(k) + b_g^2 \int [f_E(\mathbf{k}_2) + f_E(\mathbf{k}_1)] f_E(\mathbf{k}_2) \frac{P^{\rm lin}_\delta(k_1) P^{\rm lin}_\delta(k_2)}{(2\pi)^3} d^3\mathbf{k}_1\right\}.$$

Equation (17) should read

$$P^{BB}_{\tilde{\gamma}^I}(k) = \frac{C_1^2\bar{\rho}^2}{\bar{D}^2} a^4 b_g^2 \int [f_B(\mathbf{k}_2) + f_B(\mathbf{k}_1)] f_B(\mathbf{k}_2) \frac{P^{\rm lin}_\delta(k_1) P^{\rm lin}_\delta(k_2)}{(2\pi)^3} d^3\mathbf{k}_1.$$

Equation (18) should read

$$P_{\delta,\tilde{\gamma}^I}(k) = -\frac{C_1\bar{\rho}}{\bar{D}} a^2 P^{\rm lin}_\delta(k).$$

Equation (21) should read

$$\tilde{\gamma}^I_E(\mathbf{k}) = \frac{C_2\bar{\rho}^2}{(2\pi)^3\bar{D}^2} a^4 \int h_E(\hat{\mathbf{k}}_1', \hat{\mathbf{k}}_2') \delta_{\rm lin}(\mathbf{k}_1') \delta_{\rm lin}(\mathbf{k}_2') \left[\delta^{(3)}(\mathbf{k}_3') + \frac{b_g}{(2\pi)^3}\delta_{\rm lin}(\mathbf{k}_3')\right] d^3\mathbf{k}_1' d^3\mathbf{k}_2'.$$

Equation (23) should read

$$P^{EE}_{\tilde{\gamma}^I}(k) = \frac{C_2^2\bar{\rho}^4}{\bar{D}^4} a^8 \left\{2\int [h_E(\hat{\mathbf{k}}_1, \hat{\mathbf{k}}_2)]^2 \frac{P^{\rm lin}_\delta(k_1) P^{\rm lin}_\delta(k_2)}{(2\pi)^3} d^3\mathbf{k}_1 + \frac{2}{3} b_g^2 \int [h_E(\hat{\mathbf{k}}_1', \hat{\mathbf{k}}_2') + h_E(\hat{\mathbf{k}}_2', \hat{\mathbf{k}}_3') + h_E(\hat{\mathbf{k}}_3', \hat{\mathbf{k}}_1')]^2 \times \frac{P^{\rm lin}_\delta(k_1') P^{\rm lin}_\delta(k_2') P^{\rm lin}_\delta(k_3')}{(2\pi)^6} d^3\mathbf{k}_1' d^3\mathbf{k}_2'\right\}.$$

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