Erratum: Large-scale nuclear structure calculations for spin-dependent WIMP scattering with chiral effective field theory currents [Phys. Rev. D 88, 083516 (2013)]

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In our article Phys. Rev. D **88**, 083516 (2013) the expressions given in Eqs. (18), (A11), and (A13) contained some typos. They should correctly read

$$\delta a_1^P(p) = \frac{\rho}{F_\pi^2}\left[\frac{-2c_3p^2}{m_\pi^2+p^2} + \frac{c_3+c_4}{3}I^P(\rho,p) - \frac{1+\hat{c}_6}{12m}I_{c6}(\rho,p)\right], \tag{18}$$

$$\begin{aligned} I_1^\sigma(\rho,Q) = \frac{1}{512k_F^3Q^3}\Bigg(&8k_FQ[48(k_F^2+m_\pi^2)^2+32(k_F^2-3m_\pi^2)Q^2-3Q^4] + 768m_\pi^3Q^3\mathrm{arccot}\left[\frac{m_\pi^2+\frac{Q^2}{4}-k_F^2}{2m_\pi k_F}\right] \\ &+3[16(k_F^2+m_\pi^2)^2-8(k_F^2-5m_\pi^2)Q^2+Q^4][4(k_F^2+m_\pi^2)-Q^2]\log\left[\frac{m_\pi^2+(k_F-\frac{Q}{2})^2}{m_\pi^2+(k_F+\frac{Q}{2})^2}\right]\Bigg), \end{aligned} \tag{A11}$$

$$\begin{aligned} I^P(\rho,Q) = -\frac{3}{512k_F^3Q^3}\Bigg(&8k_FQ[48(k_F^2+m_\pi^2)^2-32k_F^2Q^2-3Q^4] + 3[4(k_F^2+m_\pi^2)-Q^2][4m_\pi^2+(2k_F-Q)^2] \\ &\times[4m_\pi^2+(2k_F+Q)^2]\log\left[\frac{m_\pi^2+(k_F-\frac{Q}{2})^2}{m_\pi^2+(k_F+\frac{Q}{2})^2}\right]\Bigg). \end{aligned} \tag{A13}$$

In addition, the $\delta a_1^P(p=m_\pi)$ values given in the last column of Table II have been erroneously given by $\delta a_1(p=m_\pi)$. The corrected Table II is given here. It follows that the range for $\delta a_1^P(p=m_\pi)$ is 23%…54%, and not 16%…35%, as stated erroneously. Finally, in the text below Eq. (18), the reduction of δa_1 is 16%…36% at $p=m_\pi$, not at $p=2m_\pi$, as stated incorrectly.

Our calculations and results for the structure factors are free from these typos, and therefore all results of the article remain unchanged.

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TABLE II. Values for all c_3, c_4 sets considered of the long-range 2b current contributions $\delta a_i(p=0)$ (axial) and $\delta a_i^P(p=m_\pi)$ (pseudoscalar) for the density range $\rho = 0.10\ldots0.12\ fm^{-3}$. The c_i values are in GeV^{-1}.

	c_3	c_4	$\delta a_1(p=0)$	$\delta a_1^P(p=m_\pi)$
EM	−3.2	5.4	−(0.26…0.32)	0.32…0.38
EM + δc_i	−2.2	4.4	−(0.20.....0.25)	0.23.....0.27
EGM	−3.4	3.4	−(0.19.....0.24)	0.33.....0.39
EGM + δc_i	−2.4	2.4	−(0.14.....0.17)	0.24.....0.28
PWA	−4.78	3.96	−(0.23.....0.29)	0.45.....0.54
PWA + δc_i	−3.78	2.96	−(0.18…0.23)	0.36.....0.43

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