Erratum: Stripe order on the spin-1 stacked honeycomb lattice in $\text{Ba}_2\text{Ni}(\text{PO}_4)_2$ [Phys. Rev. B **95**, 024401 (2017)]

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A mistake in our recent paper has been found, namely, a misinterpretation of the magnetic structure analysis (p. 7, second column, second and third paragraphs). Nevertheless, the reported magnetic structure (Fig. 9) was correct. During the analysis, the c component of the magnetic moment (m_c) for Γ_2 mistakenly was considered to be similar to Γ_1 , which led to equal quality of fits for both Γ_1 and Γ_2 . However, the correct sequences for m_c (+ − +−) for Γ_1 and (+ − −+) for Γ_2 are different. The analysis with the corrected sequences reveals that the refinement with Γ_2 ($R_{\text{mag}} = 26.8\%$) does not fit the experimental magnetic pattern. Only Γ_1 reproduces the experimental magnetic pattern at 1.5 K ($R_{\text{mag}} = 11.8\%$). Therefore, the magnetic structure follows Γ_1 .

The corrected paragraph [for paragraphs 2 and 3 of the original paper (p. 7, second column)] should be read as

“The refinement of the magnetic structure was attempted for all four Γ ’s. Only Γ_1 reproduces the experimental magnetic pattern at 1.5 K ($R_{\text{mag}} = 11.8\%$) [Fig. 8(c)]. The basis vectors for Γ_1 (Table IV) indicate that all three components of the magnetic moment are refinable. Their simultaneous refinement yields $m_a = 0.22(6) \mu_B$, $m_b = -0.03(9) \mu_B$, and $m_c = 1.74(3) \mu_B$ with the total magnetic moment of $m = 1.75(8) \mu_B$ at 1.5 K. The component m_b is zero within the standard deviation, and an equal quality of the fit was obtained with $m_b = 0$, in agreement with the experiment, where $M(H)$ is linear in low fields and no signatures of net magnetization or hysteresis are observed (Fig. 5). In contrast, a finite m_b value would lead to a weakly ferromagnetic structure at odds with the experiment. Therefore, we conclude that the m_b component is zero. The obtained values indicate that the spins are lying on the ac plane with a predominant component along the c axis. The ordered moment is about 10% smaller than the spin-only value of $2 \mu_B$ for $S = 1$ and 25% smaller than the full moment of $gS\mu_B = 2.33 \mu_B$ expected for $g = 2.33$ when the contribution of the orbital moment is included for this sample.”