## Erratum: Spin waves in a triangular lattice antiferromagnet: Decays, spectrum renormalization, and singularities [Phys. Rev. B 79, 144416 (2009)]

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In our paper, several unfortunate typographical errors were found. Equation (2) and the following discussion should read:

$$\Gamma_{\mathbf{k}} \simeq \left(V_3^2 / SJ\right) \ln(\Lambda S),$$
 (2)

where  $V_3 \sim \sqrt{S}J$  is the strength of a three-particle decay vertex and  $\Lambda$  is the momentum cutoff. Even for large values of spin S the decay rate  $\Gamma_{\bf k}$  in (2) is logarithmically enhanced relative to a perturbative result  $\Gamma_{\bf k} \sim J$ . In Appendix B, two equations need corrections. The second line in the expression for  $\delta \widehat{S}^{3,3}$  was missing a factor  $\omega_{\bf Q}/\omega_{\bf k}$ . The

In Appendix B, two equations need corrections. The second line in the expression for  $\delta S^{3,3}$  was missing a factor  $\omega_{\mathbf{Q}}/\omega_{\mathbf{k}}$ . The entire expression should read as

$$\delta\widehat{S}^{3,3} = \frac{3}{2} \sum_{\mathbf{k}} \frac{(1 - \gamma_{\mathbf{k}})}{\omega_{\mathbf{k}}^2} \sum_{\mathbf{q}} \bigg[ \gamma_{\mathbf{k}} \bigg( \frac{\widetilde{\Gamma}_1(\mathbf{k}, \mathbf{k} - \mathbf{q}) \widetilde{\Gamma}_2(-\mathbf{k}, \mathbf{q})}{\omega_{\mathbf{q}} + \omega_{\mathbf{k} - \mathbf{q}} + \omega_{\mathbf{k}}} - \frac{\widetilde{\Gamma}_1(\mathbf{Q}, \mathbf{Q} - \mathbf{q}) \widetilde{\Gamma}_2(-\mathbf{Q}, \mathbf{q})}{\omega_{\mathbf{q}} + \omega_{\mathbf{Q} - \mathbf{q}}} \frac{\omega_{\mathbf{Q}}}{\omega_{\mathbf{k}}} \bigg) + \frac{2}{3} \frac{\omega_{\mathbf{k}} \Big( 1 + \frac{1}{2} \gamma_{\mathbf{k}} \Big) \widetilde{\Gamma}_2(\mathbf{k}, \mathbf{q})^2}{(\omega_{\mathbf{q}} + \omega_{\mathbf{k} + \mathbf{q}} + \omega_{\mathbf{k}})^2} \bigg].$$

In the subsequent equation, one 0 was missing in the numerical result for the first quantity. The correct expression is

$$-\frac{9}{16}c_1c_2 = 0.02019927, \quad \delta\widehat{S}^{3,1} = 0.017918(1),$$
  
$$\delta\widehat{S}^{3,2} = 0.025496(2), \quad \delta\widehat{S}^{3,3} = -0.074660(5).$$

None of these unfortunate typographical errors have affected the results of our work.