

**Erratum: Thermospin effects in a quantum dot connected to ferromagnetic leads
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In Eq. (5) of the paper there is a typographical error. That equation should read

$$\begin{aligned}
 I_{\nu} &= P_0(W_{0\rightarrow 1}^{(\nu)} + W_{0\rightarrow 2}^{(\nu)}) - P_1(W_{1\rightarrow 0}^{(\nu)} - W_{1\rightarrow 3}^{(\nu)}) - P_2(W_{2\rightarrow 0}^{(\nu)} - W_{2\rightarrow 3}^{(\nu)}) - P_3(W_{3\rightarrow 1}^{(\nu)} + W_{3\rightarrow 2}^{(\nu)}) \\
 I_{s\nu} &= P_0(W_{0\rightarrow 1}^{(\nu)} - W_{0\rightarrow 2}^{(\nu)}) - P_1(W_{1\rightarrow 0}^{(\nu)} + W_{1\rightarrow 3}^{(\nu)}) + P_2(W_{2\rightarrow 0}^{(\nu)} + W_{2\rightarrow 3}^{(\nu)}) + P_3(W_{3\rightarrow 1}^{(\nu)} - W_{3\rightarrow 2}^{(\nu)}). \tag{5}
 \end{aligned}$$

The calculations presented in the paper were performed with the correct formula and all the results and conclusions are valid.

We thank Lu Xin for pointing out this correction to us.