Erratum

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Yuxiang Yin,1,a) Dong-Soo Han,1 June-Seo Kim,1 Reinoud Lavrijsen,1 Kyung-Jin Lee,2,3
Seo-Won Lee,2 Kyoung-Whan Kim,4 Hyun-Woo Lee,5 Henk J. M. Swagten,1
and Bert Koopmans1

1Department of Applied Physics, Center for NanoMaterials, Eindhoven University of Technology, PO Box 513,
5600 MB Eindhoven, The Netherlands
2Department of Materials Science and Engineering, Korea University, Seoul 02841, South Korea
3KU-KIST Graduate School of Converging Science and Technology, Korea University, Seoul 02841,
South Korea
4Center for Nanoscale Science and Technology, National Institute of Standards and Technology, Gaithersburg,
Maryland 20899, USA
5PCTP and Department of Physics, Pohang University of Science and Technology, Pohang 37673,
South Korea

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This erratum includes three modifications to the original paper:2

- The units of \( R_{\text{DW}} \) (y-axis) in Fig. 4 (in main text), Fig. S3 (in supplementary material), and Fig. S4 (in supplementary material) should be \( \Omega \) instead of \( \text{m}\Omega \).
- At the end of the right-top paragraph of page 3, a reference to the supplementary material should be added. . . . . shunting through the Pt layer (see supplementary material).
- The following section should be added to the supplementary material.

DETERMINATION OF THE SINGLE DW RESISTANCE

To convert the change of the resistance of the whole wire \( \Delta R \) to the single DW resistance \( R_{\text{DW}} \) only in Co layer, one more effect should be taken into account since the current does not distribute equally through the different layers. Based on the Fuchs-Sondheimer model,1 a fraction of

\[ p = 0.033 \]

of the current runs through the magnetic Co layer. The measured resistance of the wire can now be described as the result of two parallel resistors \( R_{\text{Co}} = R_{\text{wire}}/p \) and \( R_{\text{Pt}} = R_{\text{wire}}/(1-p) \), where \( R_{\text{wire}} \approx 1 \text{k} \Omega \). The change of single DW resistance \( R_{\text{DW}} \) leads to a change of the resistance of the whole wire \( \Delta R \), which is given by

\[
\Delta R = \frac{p^2 R_{\text{DW}} R_{\text{wire}}}{R_{\text{wire}} + p(1-p) R_{\text{DW}}} \approx p^2 R_{\text{DW}}.
\]  

Thus, one can calculate that \( R_{\text{DW}} = \Delta R/p^2 = \Delta R \times 920 \). The calculated single DW resistance \( R_{\text{DW}} \) is shown in Fig. 4.


a)E-mail: y.yin@tue.nl