

Comment on “Planar Hall resistance ring sensor based on NiFe/Cu/IrMn trilayer structure”
[J. Appl. Phys. 113, 063903 (2013)] - DTU Orbit (09/11/2017)

Comment on “Planar Hall resistance ring sensor based on NiFe/Cu/IrMn trilayer structure” [J. Appl. Phys. 113, 063903 (2013)]

In a recent paper, Sinha et al. compared sensitivities of planar Hall effect sensors with different geometries that are all based on the anisotropic magnetoresistance of permalloy. They write that the sensitivity of a planar Hall effect sensor with a ring geometry is a factor of $\sqrt{2}$ larger than the sensitivity of the so-called planar Hall effect bridge (PHEB) sensor of equal size. Osterberg et al do not agree on the signal calculation for a ring sensor derived by Sinha et al. and claim that this adversely affects the results.

General information

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Authors: Østerberg, F. W. (Intern), Henriksen, A. D. (Intern), Rizzi, G. (Intern), Hansen, M. F. (Intern)

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