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Spin torques between ferromagnetic and compensated antiferromagnetic layers[1] ADRIAN POPESCU, Center for Nanoscale Science and Technology, National Institute of Standards and Technology, Gaithersburg, MD 20899, KHARTIK PRAKIA, The MITRE Corporation, Bedford, MA, 01730, PAUL HANEY, Center for Nanoscale Science and Technology, National Institute of Standards and Technology, Gaithersburg, MD 20899 — The current induced torques between a ferromagnetic layer and a compensated antiferromagnetic layer of various symmetries are considered. The general conditions under which these current induced torques can stabilize the out-of-plane configuration of the ferromagnet are provided, along with numerical results for specific models. The effects of phase breaking scattering and their experimental implications are also discussed.

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