

Abstract Submitted
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Inverse spin-Hall effect in NiFe|*p*-type diamond¹ NAOKI FUKUI, Osaka University, HIROKI MORISHITA, Osaka University, CREST, SATOSHI KOBAYASHI, SHINJI MIWA, Osaka University, NORIKAZU MIZUOCHI, Osaka University, CREST, YOSHISHIGE SUZUKI, Osaka University, OSAKA UNIVERSITY TEAM, CREST COLLABORATION — We present DC electromotive forces (EMFs) experiments in NiFe|*p*-type diamond under a ferromagnetic resonance (FMR) of the NiFe. We measured the DC EMFs as a function of a resonance-microwave field and a rotational symmetry of ones. Their measurements suggest that one of the DC EMFs has same symmetry with the inverse spin-Hall effect. The sign of the observed inverse spin-Hall EMFs are opposite to that in the NiFe layer. Our results therefore show the presence of the inverse spin-Hall effect in the NiFe|*p*-type diamond.

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