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**Cross-Magnetic-Field Flow Driven by Lower Hybrid Waves in LHCD** XIAOYIN GUAN, HONG QIN, Princeton Plasma Physics Laboratory — Cross-Magnetic-Field flow of electrons can be driven by lower hybrid waves during LHCD. The magnitude of the flow is calculated through quasilinear theory. The Lorentz force at toroidal direction caused by the flow is large enough to be considered as the momentum source of spontaneous plasma rotation observed during LHCD. This work is supported by the U.S. Department of Energy (DE-AC02-09CH11466)

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