

Abstract Submitted  
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**Physical factors affecting Rashba Spin-orbit coupling** CHIH-PIAO CHUU, Univ. of Texas at Austin, MING-CHE CHANG, National Taiwan Normal University, QIAN NIU, Univ. of Texas at Austin — The Rashba Spin-orbital coupling plays a crucial role in charge and spin transport in semiconductor heterostructure. We study several physical parameters which may contribute to Rashba Spin-orbital coupling, including asymmetric potential barriers, quantum well inclination, effective mass, and band mixing. This may provide some insights in designing spintronic microdevices .

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