Spin torques
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Not only does the magnetic state of a spintronic device control the current passing through it, but the current can control the magnetic state of the device, not just through the magnetic fields generated by the current, but more importantly through the spins carried by the current. In this talk, I describe the variety of ways in which the spin current can manipulate the magnetization. Systems include magnetic trilayers, magnetic nanowires, and bilayers of ferromagnetic thin films on top of non-magnetic films with strong spin orbit coupling.