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**Optomechanical Spin-Orbit Coupling** ARIEL XIE, the College of Wooster — It is known that the angular momentum of light can be transferred to a transparent isotropic sphere, therefore affecting its spin and trajectory. In this work, we consider angular momentum transfer to an anisotropic sphere, and predict the perturbation to the trajectory due to the anisotropy.

Ariel Xie the College of Wooster

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