Abstract Submitted
for the MAR12 Meeting of
The American Physical Society

Lie algebras for time-dependent Rashba-Dresselhaus materials JEAN-FRANCOIS VAN HUELE, MANUEL BERRONDO, Brigham Young University — We study the spin dynamics of Rashba and Dresselhaus interactions in systems with unconfined and confined geometries. We show how Lie algebra factorization of the evolution can be used to describe systems with arbitrary time-dependence in the parameters.

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Date submitted: 11 Nov 2011 Electronic form version 1.4