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Matthew D Kerr* (matkerr@math.wustl.edu), WUSTL Math Department, 1 Brookings Dr., Campus Box 1146, Cupples I, Room 100, St. Louis, MO 63130-4899. *What is ... the mirror of an algebraic cycle?*

This talk is based on work of Morrison-Walcher and others in open mirror symmetry and my work with C. Doran in the local setting. In each case, certain invariants of algebraic cycles on the B-model, turn out to be mirror to Gromov-Witten generating functions. I'll offer some speculation as to how one might want to complete this story on the A-model, at least on the level of Hodge theory. (Received September 14, 2010)