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Michael P. Allocca* (mpallocc@ncsu.edu), North Carolina State University, Department of Mathematics, Campus Box 8205, Raleigh, NC 27695. *Homomorphisms of L_∞ Modules.*

L_∞ algebras are natural generalizations of Lie algebras from a homotopy perspective. Many concepts from classical Lie algebra representation theory also generalize up to homotopy in the form of L_∞ modules. We discuss building classical Lie module homomorphisms in this generalized context and define homomorphisms of L_∞ modules. (Received September 11, 2009)