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Michael P Allocca* (mpallocc@ncsu.edu), Department of Mathematics, North Carolina State University, Raleigh, NC 27695. *A Finite Dimensional A_∞ algebra Example.*

A_∞ algebras have been objects of current research. However, concrete examples of such structures have remained elusive. We construct a finite dimensional example of an A_∞ structure over a simple graded vector space that has been of interest in the study of L_∞ algebras, and briefly discuss the task of proving that this simple structure satisfies the A_∞ relations. (Received December 10, 2008)