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Tom Lada* (lada@math.ncsu.edu). *A Small Open-Closed Homotopy Algebra.*

In this joint work with T. Kadeishvili, we will review the various notions of an L-infinity algebra acting on an A-infinity algebra, which include the concept of an open-closed homotopy algebra (OCHA) due to Kajiwara and Stasheff. In particular, a non-trivial finite dimensional example of an OCHA will be presented. (Received August 19, 2008)