1052-18-341   **Tom Lada*** (`lada@math.ncsu.edu`). *An L-infinity algebra which is also an open closed homotopy algebra.* Preliminary report.

Recall L-infinity algebras are the objects acted upon by an L-infinity operad, and have strong connections to deformation theory and mathematical physics. More recently, open closed homotopy algebras (OCHAs) were introduced by Kajiura and Stasheff as the algebras over the 'Swiss-cheese' operad of Voronov, which blends the little disks and little intervals operads as suggested by Kontsevich's approach to deformation quantization. The talk will provide a general introduction to L-infinity algebras, along with some discussion of OCHAs, as a context for considering in some detail a specific example of both at once. (Received September 01, 2009)