1107-53-283 Cheyne Miller* (cmiller@gc.cuny.edu). Iterated integrals for Local Zig-Zag Hochschild Complexes. Preliminary report.

We define a new higher Hochschild Complex with an Iterated Integral map to model differential forms on the space of bigons on M. In particular, given a gerbe with structure 2-group coming from a crossed module of matrix-groups, there is an element in our Zig-Zag Hochschild complex associated to the 2-holonomy given by such a gerbe. This paper is introduces an initial construction central to the author's PhD Thesis. (Received January 17, 2015)