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Claudia Miller* (clamille@syr.edu) and **Hamid Rahmati**. *Transferring algebra structures on complexes.*

We discuss a homological method for transferring algebra structures on complexes along suitably nice homotopy equivalences. We also show how one can get such homotopy equivalencies, from old ones, using a homological tool called the perturbation lemma. Lastly, we discuss how to use the homotopy on the tautological Koszul complex given by the weighted de Rham map to build a concrete permutation invariant dg-algebra structure on a well-known resolution. This is joint work with Hamid Rahmati. (Received February 02, 2020)