1158-57-193 Sujoy Mukherjee* (mukherjee.166@osu.edu) and Jozef H. Przytycki (przytyck@gwu.edu). On multi-term distributive homology. Preliminary report.

Two-term distributive (rack) homology, introduced in 1990, and its enhancement, twisted quandle homology, are very useful tools for constructing link invariants and for studying self-distributive algebraic structures. The second author proposed the theory of multi-term distributive homology in 2011 to study the homology of self-distributive algebraic structures under a general framework.

After a brief discussion about the monoid of all binary operations on a set X and multi-shelves, I will introduce multi-term distributive homology. Finally, I will talk about our present work on the topic. (Received March 01, 2020)