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J. Scott Carter, Atsushi Ishii and Masahico Saito* (saito@usf.edu). *Homology for quandles with partial group operations*. Preliminary report.

Quandle homology theories have been constructed in analogy of group homology. There are quandles in which group operations are partially defined, and the two operations satisfy certain compatibility conditions. We present such structures called multiple conjugation quandles, and propose a homology theory that reflect both operations. Relations to handle-body links are discussed. (Received September 13, 2013)