1147-57-619 Kokoro Tanaka* (kotanaka@u-gakugei.ac.jp), Department of Mathematics, Tokyo Gakugei University, Nukuikita 4-1-1, Koganei, Tokyo 184-8501, Japan, and Yu Hashimoto. Quandle cocycle invariants and shadow cocycle invariants.

Both of quandle cocycle invariants and shadow cocycle invariants are refinement of quandle coloring numbers. The formers are defined by using quandle 2-cocycles and the latters are defined by using quandle 3-cocycles. In this talk, we introduce a chain map for quandle homology groups and give a relation between two invariants. (Received January 27, 2019)