Kanako Oshiro* (oshirok@sophia.ac.jp) and Atsushi Ishii. Calculations of twisted Alexander invariants using $f$-derivatives for quandles.

$f$-derivatives for quandles are a generalization of Fox derivatives for groups. By using an $f$-derivative, we have an Alexander matrix of a quandle with a quandle representation, which yields some invariants such as twisted Alexander ideals and twisted Alexander polynomials. In this talk, we will demonstrate how to obtain such invariants. (Received January 29, 2019)