1054-57-44 Seiichi Kamada* (kamada@math.sci.hiroshima-u.ac.jp), Department of Mathematics, Hiroshima University, Higashi-Hiroshima, Hiroshima 739-8526, Japan. *Knot symmetric quandles* and their presentations.

A symmetric quandle is a quandle with a good involution. For a knot in \mathbb{R}^3 , a knotted surface in \mathbb{R}^4 or an *n*-manifold in \mathbb{R}^{n+2} , the knot symmetric quandle is defined. We introduce the notion of a presentation of a symmetric quandle, and show how to get a presentation of a knot symmetric quandle from a knot diagram. (Received August 25, 2009)