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Seiichi Kamada* (skamada@sci.osaka-cu.ac.jp), Department of Mathematics, Osaka City University, Sumiyoshi, Osaka, 558-8585, Japan. *Tensor products of quandles and classification of 1-handles.*

We introduce the notion of the tensor product of quandles. As an application, we use it for classifying 1-handles attached to surface-knots. 1-handles are naturally understood via the tensor product of knot quandles, or knot symmetric quandles. Especially, for a case of surface-links, it seems simpler than presentation in terms of groups. (Received August 16, 2015)