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Seung Yeop Yang* (seungyeop.yang@du.edu). *An introduction to quandle cocycle invariants of knots.*

There is a close relationship between quandles and knots; quandle theory has its origins in knot theory. We study an application of quandles to show how quandle cohomology theory, introduced by J. S. Carter, D. Jelsovsky, S. Kamada, L. Langford, and M. Saito, can be used to distinguish two knots. This talk is suitable for undergraduates. (Received September 02, 2017)