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Allison Henrich*, henricha@seattleu.edu. *Knots Related by Knotoids.*

Knotoids are, loosely speaking, knotted objects that have loose ends. There are many ways of connecting these loose ends to obtain ordinary classical or virtual knots. This fact allows us to do something interesting: define a relation between knots using knotoids. In this talk, we will learn what it means for two knots to be “knotoid equivalent.” Armed with this definition, we will discuss which pairs of knots are knotoid equivalent and why. The answer may surprise you! (Received August 14, 2019)