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Maciej Niebrzydowski* (mniebrz@gmail.com). *Knots with binary relations*. Preliminary report.

We consider binary relations on the set of arcs of a given link diagram, together with the condition that an arc b can move over arc a only if aRb . We discuss the consequences of such a condition, including the irreversibility of moves, and using indicators in place of invariants. We consider a similar problem with relations on the set of components, for which we develop a homology of (partial) quandles with binary relations. (Received September 09, 2013)