

1145-VU-2898 **Indu Rasika Churchill***, indurasika.churchill@oswego.edu. *f-Quandles*.

Quandles are non-associative algebraic structures whose axioms are motivated by Reidemeister moves in Knot Theory. The concept of a quandle can be used to help solve the fundamental knot theory problem of determining if two different knot diagrams represent the same knot. In this talk, we will give the precise definitions to make the talk self contained. We present some of the recent research that generalizes quandles by introducing the notion of f -quandles wherein we attach a map f to the usual equation identities. We will give some examples of f -quandles and also will discuss cohomology of f -quandles. (Received September 25, 2018)