

1125-16-1871      **Maria D. Vega\*** ([maria.vega@usma.edu](mailto:maria.vega@usma.edu)), Department of Mathematical Sciences, United States Military Academy, West Point, NY 10996. *Hopf algebras, Indicators and Twisted Extensions*.

In this talk, I will describe twisted exponents as well as twisted extensions constructed from a group acting on a Hopf algebra  $A$  as Hopf automorphisms. I will show connections between the twisted and classical Frobenius–Schur indicators and exponents for the smash coproduct produced by twisted extensions to those of the original Hopf algebra  $A$ . I will also describe a formula for twisted indicators and use it to prove periodicity and rationality statements. (Received September 19, 2016)