

1112-16-276

**Susan Montgomery\*** (smontgom@usc.edu), **Maria Vega** and **Sarah Witherspoon**. *Hopf automorphisms and twisted extensions*.

We give some applications of a Hopf algebra  $K$  constructed from a group acting on another Hopf algebra  $A$  as Hopf automorphisms, namely Molnar's smash coproduct Hopf algebra.

We find connections between the exponent and Frobenius-Schur indicators of  $K$  and the twisted exponents and twisted Frobenius-Schur indicators of the original Hopf algebra  $A$ . (Received August 06, 2015)