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**Jon F Carlson** and **Srikanth B. Iyengar\***, Department of Mathematics, University of Utah,  
155 South 1400 East, Room 233, Salt Lake City, UT 84112-0090. *Cup products in the cohomology  
of local Hopf algebras*. Preliminary report.

Given a Hopf algebra  $A$  over a field  $k$ , the coproduct on  $A$  induces an action of the cohomology ring,  $\text{Ext}_A^*(k, k)$ , of  $A$  on  $\text{Ext}_A^*(M, M)$ , for any  $A$ -module  $M$ . In my talk, I will present some results about the (in)dependence of this action on the coproduct. This is based on joint work with Jon Carlson. (Received February 20, 2020)