

Meeting: 1007, Santa Barbara, California, SS 5A, Special Session on Noncommutative Geometry and Algebra

1007-16-104 **Stefaan Caenepeel, Declan Quinn and Serban Raianu*** (sraianu@csudh.edu), Mathematics Department, Cal State Univ Dominguez Hills, 1000 E Victoria St, Carson, CA 90747. *Duality for finite Hopf algebras explained by corings*. Preliminary report.

We investigate a coring version for the duality theorem for actions and coactions of finite Hopf algebras. A coring version of a theorem of H.-J. Schneider, which generalizes the duality theorem and all its refinements, is also given. (Received February 10, 2005)