1135-46-2634   **Chase T Worley*** (`chase.worley@maryvillecollege.edu`), 912 Enterprise Way, Maryville, TN 37801. *Commuting Squares of Bismash Product Hopf Algebras.* Preliminary report.

We construct a new class of commuting squares which we call bismash commuting squares. They are obtained from bismash product Hopf algebras based on exact factorizations of finite groups, L. We recall Nicoara's definition of the the defect of a commuting square, and then investigate the defect of a bismash commuting square which leads us to the conjecture that the defect of the commuting square is equal to the defect of the group L. We are able to calculate the defect for easy examples coming from group theory. We prove this conjecture when L is the direct or semidirect product of two proper subgroups. This is joint work with Remus Nicoara and Ian Francis. (Received September 26, 2017)