

Meeting: 1005, Newark, Delaware, SS 5A, Special Session on Designs, Codes, and Geometries

1005-05-154 **Ken W Smith*** (ken.w.smith@cmich.edu), Department of Mathematics, Central Michigan University, Mt. Pleasant, MI 48859. *Semiregular difference sets in nonabelian groups.*

We describe the $(8,8,8,1)$ relative difference sets found in nonabelian groups of order 64. We will then attempt to generalize these constructions to other nonabelian semiregular difference sets with parameters $(n,n,n,1)$

This is joint work with two undergraduate students, Paul Carmany (Ashland University) and Nick Bauer (Central Michigan University). (Received February 07, 2005)