

**B.M. Vernikov**  
*On congruences of  $G$ -sets*

Comment.Math.Univ.Carolinae 38,3 (1997) 601-611.

**Abstract:** We describe  $G$ -sets whose congruences satisfy some natural lattice or multiplicative restrictions. In particular, we determine  $G$ -sets with distributive, arguesian, modular, upper or lower semimodular congruence lattice as well as congruence  $n$ -permutable  $G$ -sets for  $n = 2, 2.5, 3$ .

**Keywords:**  $G$ -set, congruence lattice, congruence distributivity, congruence modularity, congruence  $n$ -permutability

**AMS Subject Classification:** 08A60, 08A30