1056-11-1154 **Lance Edward Miller*** (`lmiller@math.uconn.edu`), 196 Auditorium Dr, Storrs, CT 06269. *On the Structure of Witt-Burnside rings over pro-p groups.*

The (classical) Witt vectors are a functorial construction which takes perfect fields of characteristic p to p-adically complete domains of characteristic 0. In particular, finite fields of characteristic p go to rings of integers of finite unramified extensions of $\mathbf{Q}_p$. This functor was generalized by Dress and Siebeneicher to a functor W_G associated to any profinite group G, with Witt's construction being the special case $G = \mathbf{Z}_p$. In this talk we will explore some examples of $W_G(k)$ where G is a pro-p group and k is a field of characteristic p. In these examples we will see some properties that are surprising when compared to the classical case. (Received September 21, 2009)