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**Sarah Glaz** and **Ryan Schwarz** ([schwarzr1@newpaltz.edu](mailto:schwarzr1@newpaltz.edu)). *Prüfer Conditions on Commutative Group Rings.*

In the domain context, Prüfer rings, locally Prüfer rings, Gaussian rings, arithmetical rings, rings of weak global dimension at most one, and semihereditary rings all coincide. Outside the domain context, however, these properties are not equivalent. We consider the behavior of these six extensions of the Prüfer domain notion in commutative group rings. In particular, we examine the ascent and descent of these properties between  $R$  and  $RG$  where  $R$  is a commutative ring and  $G$  is an abelian group. (Received September 04, 2012)