

Meeting: 1003, Atlanta, Georgia, SS 6A, AMS-ASL Special Session on Reverse Mathematics, I

1003-03-1318 **Noam Greenberg*** (erlkoenig@nd.edu), Department of Mathematics, University of Notre Dame, Notre Dame, IN 46556, and **Antonio Montalban** (antonio@cornell.edu), Department of Mathematics, Cornell University, Ithaca, NY 14853. *Superatomic Boolean algebras and ATR_0 .*

We discuss classes of objects which have ordinal invariants, for example superatomic Boolean algebras and reduced p -groups. We observe that the ordinal structure of these classes make ATR_0 the natural system to work with them. The results and techniques are also related to index-set results. (Received October 05, 2004)