

1016-03-200

**Denis R. Hirschfeldt\*** ([drh@math.uchicago.edu](mailto:drh@math.uchicago.edu)), Department of Mathematics, University of Chicago, 5734 S. University Ave., Chicago, IL 60637, and **Richard A. Shore** and **Theodore A. Slaman**. *Computability-theoretic and proof-theoretic aspects of the atomic model theorem*. Preliminary report.

The atomic model theorem states that every countable complete atomic theory has a countable atomic model. We discuss the strength of this and related principles from the points of view of computability theory and reverse mathematics. (Received February 12, 2006)