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**John Chisholm, Jennifer Chubb, Valentina Harizanov, Denis Hirschfeldt and Carl G. Jockusch, Jr.\*** (jockusch@math.uiuc.edu), Department of Mathematics, University of Illinois, 1409 E. Green St., Urbana, IL 61801, and **Timothy McNicholl and Sarah Pingrey**. *Ranked sets and weak truth-table reducibility*. Preliminary report.

A set of natural numbers is said to be *ranked* if it belongs to some countable  $\Pi_1^0$  subset of  $2^\omega$ . We show that the complete c.e. set  $K$  is not weak truth-table reducible to any ranked set and obtain some related stronger results. This work is part of a project to analyze the degree spectra for strong reducibilities of some initial segments of computable linear orderings. Applications of these results and other aspects of this project will be discussed by Valentina Harizanov in the same session. (Received February 10, 2006)