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Scott T. Parsell* (sparse11@wcupa.edu), Department of Mathematics, West Chester University, 25 University Avenue, West Chester, PA 19383, and **Trevor D. Wooley**. *Exceptional sets for diophantine inequalities*. Preliminary report.

We describe new upper bounds for the measure of the set of real numbers not closely approximated by a diagonal form with real coefficients. The arguments employ a version of the classical Davenport-Heilbronn method together with more recent technology related to slim exceptional sets in Waring's problem. (Received August 26, 2009)