1027-20-175 **Bryson W Finklea**, **Terri Moore** and **Vadim Ponomarenko*** (vadim123@gmail.com), Department of Mathematics and Statistics, 5500 Campanile Drive, San Diego State University, San Diego, CA 92182, and **Zachary Turner**. *On Groups with Excessive Davenport Constant.*

For a fixed finite abelian group G, consider all multisets of elements whose sum is zero. These multisets form a semigroup under the multiset sum operation. The Davenport constant, $D(G)$, denotes the largest cardinality of the atoms of this semigroup. A simple, constructive, lower bound $D^\star(G)$ has been known for 40 years. For many groups, in fact $D^\star(G) = D(G)$. For certain groups, however, it is known that $D^\star(G) < D(G)$. We determine $D(G)$ for some of these violative groups. (Received February 26, 2007)