1145-05-1502 **Erik A Metz*** (emetz@umd.edu), 10248 Bristol Channel, Ellicott City, MD 21042. *Upper and Lower Bounds on Zero-Sum Generalized Schur Numbers.*

Let $S_\mathfrak{z}(k,r)$ be the least positive integer such that for any r-coloring $\chi : \{1,2,\ldots,S_\mathfrak{z}(k,r)\} \longrightarrow \{1,2,\ldots,r\}$, there is a sequence $x_1, x_2, \ldots, x_k$ such that $\sum_{i=1}^{k-1} x_i = x_k$, and $\sum_{i=1}^{k} \chi(x_i) \equiv 0 \pmod{r}$. We show that when k is greater than r, $kr - r - 1 \leq S_\mathfrak{z}(k,r) \leq kr - 1$, and when r is also an odd prime, $S_\mathfrak{z}(k,r)$ is in fact equal to $kr - r$. (Received September 22, 2018)