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B. Baker Swart, K. A. Beck, S. Crook, C. Eubanks-Turner, H. G. Grundman*
(grundman@brynmawr.edu), **M. Mei** and **L. Zack**. *On the Fixed Points of Certain Augmented Generalized Happy Functions*. Preliminary report.

For integers $c \geq 0$ and $b \geq 2$, we consider the augmented generalized happy function, $S_{[c,b]} : Z^+ \rightarrow Z^+$, is defined by

$$S_{[c,b]} \left(\sum_{i=0}^n a_i b^i \right) = c + \sum_{i=0}^n a_i^2,$$

where for each i , $0 \leq a_i \leq b - 1$ and $a_n \neq 0$. In this talk, I will present a number of questions and some answers about the fixed points of these functions. (Received September 11, 2015)