1098-37-302 **Erblin Mehmetaj*** (erblinm@gwu.edu), Department of Mathematics, 2115 G Street, NW, Washington, DC 20052. *Generalized Continued Fraction Expansions.* Preliminary report.

I will consider generalized continued fraction expansions generated via the map $T_r : [0,1) \to [0,1)$ defined by

$$T_r(x) = \frac{r}{x} - \left\lfloor \frac{r}{x} \right\rfloor \text{ if } x \neq 0 \text{ and } T_r(0) = 0.$$

We call these expansions $r-$expansions. Every real number has an $r-$expansion. Also, for an $r-$expansion not all sequences of digits $(a_1, a_2, ...)$ are admissible. So, I will show that a sequence $(a_1, a_2, ...)$ is admissible if and only if the sequence itself and all of its shifts are alternating-lexicographically less than the $r-$expansion of 1. (Received January 28, 2014)