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Erblin Mehmetaj* (em1109@georgetown.edu), Georgetown University, Department of Mathematics and Statistics, 37th and O Streets, NW, Washington, DC 20057. *On the r -Continued Fraction Expansions of Real Numbers.*

Parry proved that a sequence is admissible as the β -expansion of a real number if and only if all of the shifts of the sequence are dominated lexicographically by the sequence obtained from the β -expansion of 1. I prove a similar result for r -continued fraction expansions. I prove that a sequence is admissible, that is, it comes from the r -continued fraction map $T_r(x) = r/x \pmod{1}$ if and only if all of its shifts are alternating-lexicographically less than the sequence obtained from the r -continued fraction expansion of 1. (Received January 20, 2015)