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S. Eigen (s.eigen@neu.edu), Boston, MA 02115, and **A. B. Hajian, Y. Ito** and **V. S. Prasad*** (vidhu_prasad@uml.edu), Dept. of Mathematical Sciences, University of Massachusetts Lowell, 1 University Avenue, Lowell, MA 01824. *Special Weakly Wandering sequences in ergodic theory and tilings of the integers*. Preliminary report.

We consider a class of sequences of integers, for an ergodic infinite measure preserving transformation, called special weakly wandering sequences. These sequences (unexpectedly) give rise to tilings of the integers. This connection between ergodic theory and tilings leads to a purely combinatorial result about hereditary tilings of the integers. We consider special weakly wandering sequences for the case of simple random walk on the integers. (Received August 21, 2015)