1009-37-173 Aimee S.A. Johnson* (aimee@swarthmore.edu), Department of Mathematics and Statistics, Swarthmore, PA 19081, and K. Dajani and M. de Vries. Partition itineraries and a 2-dimensional version of Loch's theorem.

In a 1964 result of Loch, it was shown that there is a relationship between the number of digits known for a point x in [0,1) in its decimal expansion and its continued fraction expansion. In 2001, Dajani and Fieldsteel related this result to partitions associated to 2 dynamical systems and thus were able to generalize the result to a class of dynamical systems. In this talk, joint work with Dajani and de Vries will be discussed which gives a 2-dimensional version of Loch's theorem. (Received August 15, 2005)