

1096-37-2417

E. Arthur Robinson, Jr., Joseph Rosenblatt and Ayşe A. Şahin* (asahin@depaul.edu).

Recent developments in directional dynamics. Preliminary report.

We will present some recent developments in the theory of directional dynamics. In particular we will define directional ergodicity and directional weak mixing and show the possible range of directional behavior in these categories for finite measure preserving, ergodic \mathbb{Z}^2 actions. (Received September 17, 2013)