Andrew Lazowski* (lazowskia@sacredheart.edu), 5151 Park Ave., Fairfield, CT 06825. Finite Factors and Graph Labelings.

In 1996 Albertson and Collins defined distinguishing labelings of undirected graphs. Such labelings have been since applied to directed graphs. Here we consider a directed graph $G$ associated to the $k$-block presentation of a Bernoulli scheme $X$. A labeling of $G$ defines a finite factor $f$ of $X$. We will discuss implications concerning the finite factor of $X$ being finitarily Markovian with respect to properties of $f$. Namely we are interested in cases where $f$ is $r$-demarcating or $r$-distinguishing. (Received September 17, 2013)