

1107-37-433

Ayse Sahin, Michael Schraudner and Ilie Ugarcovici* (iugarcov@depaul.edu). *A strongly aperiodic subshift of finite type on the Heisenberg group.*

We construct an example of a strongly aperiodic nearest-neighbor subshift of finite type on the discrete Heisenberg group. The term strongly aperiodic refers to the fact that the stabilizer of any valid symbolic configuration with respect to the shift action is trivial. The explicit construction starts with the \mathbb{Z}^2 Robinson SFT and uses several techniques from multidimensional symbolic dynamics to extend it to the Heisenberg group. (Received January 20, 2015)