

# WHICH DYNAMICS ARE POSSIBLE FOR $Z^d$ SFTS?

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ABSTRACT. The study of  $Z^d$  symbolic dynamical systems has experienced rapid development in recent years, largely due to the infusion of ideas from recursion theory. In this talk we will discuss interactions between logic and dynamics in the study of shifts of finite type (SFTs) for  $d > 1$ . In particular, we report on some recent work (joint with Christopher Hoffman) on the question of which types of dynamics can be realized in the class of  $Z^d$  SFTs. No knowledge of recursion theory will be assumed.