

1135-37-2159      **Elizabeth Sattler\*** (lsattler@carleton.edu) and **Ben Matson**. *S-limited shifts*. Preliminary report.

In this talk, we will explore the construction and dynamical properties of  $\mathcal{S}$ -limited shifts. An  $S$ -limited shift is a subshift defined on a finite alphabet  $\mathcal{A} = \{1, \dots, p\}$  by a set  $\mathcal{S} = \{S_1, \dots, S_p\}$ , where  $S_i \subseteq \mathbb{N}$  describes the allowable lengths of blocks in which the corresponding letter may appear. We will discuss conditions for which an  $\mathcal{S}$ -limited shift is a subshift of finite type or sofic. We will also discuss conjugacy conditions and a formula for calculating the entropy of an  $S$ -limited shift. (Received September 25, 2017)