1047-37-184   **Jeanette Olli*** (`jolli@email.unc.edu`), Campus Box 3250, Chapel Hill, NC 27599.
Endomorphisms of Certain Dynamical Systems. Preliminary report.

When studying dynamical systems, a natural question to ask is what are its endomorphisms. Ethan Coven found that every endomorphism of the Morse substitution system is of the form σ^n or $\delta\sigma^n$, where σ denotes the shift map and δ denotes the dual map. Expanding upon his work, I will discuss the endomorphisms of Sturmian systems, generalized Sturmian systems, and the chair substitution tiling system with the $\mathbb{Z}^2$ action. (Received January 28, 2009)