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Lori Alvin* (lalvin@du.edu) and **Nic Ormes**. *Minimal Cantor Omega-Limit Sets*.

In this talk we investigate unimodal maps f for which no iterate c_n of the turning point c is recurrent under f and the omega-limit set $\omega(c, f)$ is a minimal Cantor set. Given a non-periodic minimal sequence $r \in \mathcal{A}^{\mathbb{N}}$, we provide a characterization for when $u \in \mathcal{A}^{\mathbb{N}}$ is such that $\omega(u, \sigma) = \omega(r, \sigma)$. We then prove that the set of parameters for symmetric tent maps T_s for which $\omega(c, T_s)$ is a minimal Cantor set and $c_n \notin \omega(c, T_s)$ is dense in $[\sqrt{2}, 2]$. Modifications are provided that can be used to generate sequences $u \in \mathcal{A}^{\mathbb{N}}$ for which $\omega(u, \sigma) = X$, where $X \subseteq \mathcal{A}^{\mathbb{N}}$ is a shift space with specific properties. (Received September 02, 2014)