

Meeting: 998, Houston, Texas, SS 6A, Special Session on Continuum Theory and General Topology (in Honor of David Bellamy's 60th Birthday)

998-54-359

Christopher G. MOURON* (mouronc@rhodes.edu), Rhodes College, Department of Mathematics and C.S., 2000 North Parkway, Memphis, TX 38112. *Positive Entropy on Nonautonomous Interval Maps and the Topology of the Inverse Limit Space.*

Entropy on nonautonomous maps $\{f_i\}_{i=0}^{\infty}$ of the interval is defined 2 ways. Under one definition, called forward entropy, it is shown that positive entropy implies that the inverse limit space of $(\{f_i\}_{i=0}^{\infty}, I)$ contains an indecomposable subcontinuum. Under the second definition, called backwards entropy, it is shown that the inverse limit space of $(\{f_i\}_{i=0}^{\infty}, I)$ is not locally connected. (Received March 02, 2004)