

1154-37-1053

**Kevin McGoff\*** ([kmcgoff1@uncc.edu](mailto:kmcgoff1@uncc.edu)), Fretwell 376, 9201 University City Blvd., Charlotte, NC 28223, and **James P. Kelly**. *Entropy conjugacy for Markov multi-maps of the interval*.

We consider a class  $\mathcal{F}$  of Markov multi-maps on the unit interval. Any multi-map gives rise to a space of trajectories, which is a closed, shift-invariant subset of  $[0, 1]^{\mathbb{Z}^+}$ . For a multi-map in  $\mathcal{F}$ , we show that the space of trajectories is (Borel) entropy conjugate to an associated shift of finite type. Additionally, we characterize the set of numbers that can be obtained as the topological entropy of a multi-map in  $\mathcal{F}$ . (Received September 12, 2019)