Mathematics > Dynamical Systems

Equivalencies between beta-shifts and S-gap shifts

D. Ahmadi Dastjerdi, S. Jangjooye Shaldehi

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Let $ X_{\beta}$ be a sofic $ \beta $-shift for $ \beta \in (1, 2] $. We show that there is an $ S $-gap shift $ X(S) $ such that $ X_{\beta} $ and $ X(S) $ are right-resolving almost conjugate. Conversely, a condition on $ S \subseteq \mathbb N\cup \{0\} $ is given such that for this S, there is a $ \beta $ such that $ X(S) $ and $ X_{\beta} $ have the same equivalency. We show that if X_β is SFT, then there is an S-gap shift conjugate to this X_β; however, if X_β is not SFT, then no S-gap shift is conjugate to X_β. Also we will investigate the existence of these sort of equivalencies for non-sofics.

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