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Equivalencies between beta-shifts and S-gap shifts

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Let X_{β} be a sofic $\beta - \sinh t f or \beta \in (1, 2]$. We show that there is an $S - gap \sinh t X(S)$ such that X_{β} and X(S) are right-resolving almost conjugate. Conversely, a condition on S - subseteq\mathbb N\cup $\{0\}$ is given such that for this SS, there is a β such that X(S) and X_{β} have the same equivalency. We show that if X_{β} is SFT, then there is an SS-gap shift conjugate to this X_{β} ; however, if X_{β} is not SFT, then no SS-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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