

Homomorphisms from aperiodic subshifts to sushifts with the finite extension property

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Given a countable group G and two subshifts X and Y over G , a continuous, shift-commuting map $\phi : X \rightarrow Y$ is called a homomorphism. Our main result states that if G is locally virtually nilpotent, X is aperiodic, and Y has the finite extension property, then there exists a homomorphism $\phi : X \rightarrow Y$. By combining this theorem with a prior result of Bland, we obtain that if the same conditions hold, and if additionally the topological entropy of X is less than the topological entropy of Y and Y has no global period, then X embeds into Y .

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