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Computing the K -theory of one-dimensional mixed substitution tiling spaces

To any substitution tiling space that satisfies certain conditions, one can associate a C^* -algebra. Using a topological approximant to the tiling space called the Anderson-Putnam complex, it is possible to compute the K_0 group of this C^* -algebra. The goal of this work is to generalize these results to tiling spaces that arise from not just one, but several different substitutions, all acting on the same set of tiles. Our results are restricted to one-dimensional tiling spaces. This is joint work with Franz Gähler.