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Topological Invariants for Projection Method Patterns

By Alan Forrest, John Hunton, Johannes Kellendonk

American Mathematical Society, United States, 2002. Paperback. Book Condition: New. 200 x 171 mm. Language: English . Brand New Book. This memoir develops, discusses and compares a range of commutative and non-commutative invariants defined for projection method tilings and point patterns. The projection method refers to patterns, particularly the quasiperiodic patterns, constructed by the projection of a strip of a high dimensional integer lattice to a smaller dimensional Euclidean space. In the first half of the memoir the acceptance domain is very general - any compact set which is the closure of its interior - while in the second half we concentrate on the so-called canonical patterns. The topological invariants used are various forms of \$K\$-theory and cohomology applied to a variety of both \$C^*\$-algebras and dynamical systems derived from such a pattern. The invariants considered all aim to capture geometric properties of the original patterns, such as quasiperiodicity or selfsimilarity, but one of the main motivations is also to provide an accessible approach to the the \$K 0\$ group of the algebra of observables associated to a quasicrystal with atoms arranged on such a pattern. The main results provide complete descriptions of the (unordered) \$K\$-theory and cohomology of codimension 1...



Reviews

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