

Cut-and-Project Graphs

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Cut-and-project sets derived from higher dimensional periodic pointsets are one of the more popular methods for generating quasiperiodic structures (as models of quasicrystals). Meanwhile, graphs embedded in (3-dimensional) Euclidean space have been used to model molecules and materials for over a century. We outline the construction of cut-and-project (families of) graphs, and some of their basic properties.

Keywords: cut-and-project, model sets, periodic graphs, quasiperiodic graphs.