Graph-directed reptiles of R^2 M.C. DEL MOURE - P. PANZONE

Abstract

We show a class of graph-directed sets with positive Lebesgue measure and tiling properties. The constructions of these sets do not necessarily depend on lattices or crystallographic groups, but depend on tiling properties of, usually but not always, polygons. Several examples are given. In paricular fractal darts and kites coming from Penrose aperiodic tiling are exhibited.