On the topology of fractal tiles

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In my talk I will survey some results on topological properties of self-affine fractals. Especially, I will emphasize on fractal tiles, i.e. sets $T \subset \mathbf{R}^n$ which are defined by the set equation

$$AT = T + D.$$

Here A is a regular matrix with determinant $q \in \mathbf{Z}$ and $D \subset \mathbf{Z}^n$ has $|q|$ elements. Connectivity, local connectivity, cut points and fundamental groups of these sets will be discussed.

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