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**Quasiperiodic plane tilings based on stepped surfaces.** (English) Zbl 1370.52066  
*Acta Crystallogr., Sect. A* 64, No. 3, 376-382 (2008).

Summary: Static and dynamic characteristics of layerwise growth in two-dimensional quasiperiodic Ito–Ohtsuki tilings are studied. These tilings are the projections of three-dimensional stepped surfaces. It is proved that these tilings have hexagonal self-similar growth with bounded radius of neighborhood. A formula is given for the averaged coordination number. Deviations of coordination numbers from its average are quasiperiodic. Ito–Ohtsuki tiling can be decomposed into one-dimensional sector layers. These sector layers are one-dimensional quasiperiodic tilings with properties like Ito–Ohtsuki tilings.

**MSC:**

[52C23](#) Quasicrystals and aperiodic tilings in discrete geometry

Cited in **2** Documents

**Keywords:**

[quasiperiodic plane tilings](#); [stepped surfaces](#)

**Full Text:** [DOI](#)