

Two-dimensional approximants of photon quasicrystals obtained by the method of holographic lithography

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Abstract:

The paper studies the transition from a periodic to a quasi-periodic structure using approximants of quasicrystals in order to determine the disadvantages and advantages of the structure of quasicrystals. The study is limited to the structures that can be obtained by holographic lithography. Quasicrystals of the eighth and twelfth order were analysed, a comparison with square and hexagonal lattices was performed.

Keywords: periodic structure, quasi-periodic structure, quasicrystals, holographic lithography.

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