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Title: On problem of multiple lattice circle arrangements

Author(s): Ágota H. Temesvári

We deal with lattice circle arrangements which form a k -fold covering (with closed circles) and a $(k + 1)$ -fold packing (of open circles) for some suitable values of k . The centres of these special circle arrangements give the points of regular plane patterns yielding the least limiting variance in case of a special plane stochastic process.

Address:

Ágota H. Temesvári
Institute of Mathematics
University of West Hungary
Sopron
Hungary