

SYSTEMS OF INDEPENDENT SETS - SOME RESULTS AND CONJECTURES

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Abstract: The system of independent sets is such a system of sets of natural numbers where the asymptotic density of the intersection of its arbitrary finite subsystem is equal to the product of asymptotic densities of sets which belong to this subsystem. Basic properties of systems of independent sets and some results and conjectures concerning them are described here.

Keywords: lattice points, asymptotic density, system of independent sets.