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Profinite separation systems. (English) Zbl 07204031
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Summary: Separation systems are posets with additional structure that form an abstract setting in which tangle-like clusters in graphs, matroids and other combinatorial structures can be expressed and studied. This paper offers some basic theory about infinite separation systems and how they relate to the finite separation systems they induce. They can be used to prove tangle-type duality theorems for infinite graphs and matroids, which will be done in future work that will build on this paper.

MSC:

06-XX   Order, lattices, ordered algebraic structures   Cited in **2** Documents

Keywords:

connectivity; graph; matroid; profinite; compactness; separation system; tree set; nested

Full Text: DOI

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