

# Incomparability graphs of dismantlable lattices

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<https://doi.org/10.1142/S1793557120500345> | Cited by: 0 (Source: Crossref)

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## Abstract

We prove some characterizations of the incomparability graphs of some dismantlable lattices. We discuss the realizability of some standard graphs as a graph of a dismantlable lattice. We also find the minimum covering energy of the incomparability graph of some dismantlable lattices.

Communicated by S. Klavzar

**Keywords:** Incomparability graph ▪ dismantlable lattice ▪ realizability ▪ covering matrix ▪ characteristic polynomial ▪ eigen value ▪ covering energy

**AMSC:** 06B10

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