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Perfect effect algebras are categorically equivalent with abelian interpolation po-groups.

(English) [Zbl 1117.06009](#)

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The author introduces “perfect effect algebras” and shows that the category of perfect effect algebras is equivalent to the category of partially ordered abelian groups whose order is directed and has the Riesz decomposition property. It is also shown that every perfect effect algebra is a subdirect product of antilattice effect algebras with the Riesz decomposition property.

Reviewer: [Daniele Mundici \(Firenze\)](#)

MSC:

[06D35](#) MV-algebras

[06F20](#) Ordered abelian groups, Riesz groups, ordered linear spaces

[03G12](#) Quantum logic

[03B50](#) Many-valued logic

Cited in **17** Documents

Keywords:

[effect algebra](#); [Riesz decomposition](#); [MV-algebra](#); [interpolation group](#)

Full Text: [DOI](#)

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