

**Pulmannová, S.**

**A note on observables on MV-algebras.** (English) Zbl 1005.06006

Soft Comput. 4, No. 1, 45-48 (2000).

Summary: A criterion when a subset of an MV-algebra is contained in the range of a (finitely additive) observable is given. It is used to prove that every at most countable subset of any MV-algebra is contained in the range of an observable. A much stronger result holds for any bold fuzzy algebra  $[0, 1]^S$  which is wholly contained in the range of a ( $\sigma$ -additive) observable.

**MSC:**

**06D35** MV-algebras

**81P10** Logical foundations of quantum mechanics; quantum logic (quantum-theoretic aspects)

Cited in 7 Documents

**Keywords:**

MV-algebra; bold fuzzy algebra; observable directed system of sets

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