

Congruence FD-maximal varieties

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A variety \mathcal{V} is called congruence FD-maximal, if for every finite distributive lattice L the following two conditions are equivalent:

- (i) L is isomorphic to $\text{Con } A$ for some $A \in \mathcal{V}$;
- (ii) for every meet-irreducible $x \in L$, the lattice $\uparrow x$ is isomorphic to $\text{Con } T$ for some subdirectly irreducible $T \in \mathcal{V}$.

(Notice that (i) always implies (ii).) We consider some special types of congruence distributive varieties and present a criterion for them, characterizing the congruence FD-maximality.

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