

Title: Congruence join semi-distributive varieties and constraint satisfaction problems

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Abstract: I will present some new results on $\text{SD}(\vee)$ varieties: in particular a set of directed $\text{SD}(\vee)$ terms and an analogue of “graph absorbing” condition for congruence distributive varieties. I will discuss further applications of these results to solving CSPs for such algebras. Finally I will show examples of problematic algebras (in $\text{SD}(\vee)$) which present new problems while solving CSPs (compared to the CD case).