On congruence extension for commutative pomonoids

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We continue our investigation of congruence extension in the case of ordered algebras. Recall that an ordered algebra $\mathcal{A}$ has the *congruence extension property* (CEP) with respect to a subalgebra $\mathcal{B}$ if every order-congruence θ on $\mathcal{B}$ is the restriction of some order-congruence Θ on $\mathcal{A}$, i.e. $\Theta \cap (B \times B) = \theta$. To be more specific, we have established some results about (strong, quasiorder) congruence extension for groups and commutative pomonoids.

The talk is based on joint work with Valdis Laan and Nasir Sohail.

References

[1] V. Laan, N. Sohail, L. Tart, Hamiltonian ordered algebras and congruence extension, submitted.