The paper under review is concerned with binary tensor products for closure spaces. In this paper, the authors characterize the more general tensor products for closure spaces and for posets, and also establish some fundamental properties of tensor products.

It is shown that pseudocomplemented complete lattices form a semicategory in which the hom-set between two objects is their tensor product. As one of the main results, it is shown that the truncated tensor product of a complete lattice $B$ with itself becomes a quantale with the closure of the relation product as multiplication if and only if $B$ is pseudocomplemented, and also that the tensor product has a unit element if and only if $B$ is atomistic.

Sachin Ballal

References


Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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