

MR3735496 06F05 03G05 08A30 16D30 16N80 17A65 20M12 20N02**Erné, Marcel** (D-HANNMP); **Picado, Jorge** (P-CMBR-CM)**Tensor products and relation quantales.** (English summary)*Algebra Universalis* **78** (2017), no. 4, 461–487.

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.

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