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ON THE LATTICE OF $P$-CONSEQUENCES

Abstract. This paper is devoted to investigation of the lattice properties of $p$-consequences. Our main goal is to compare the algebraic features of the lattices composed of all $p$-consequences and all consequence operations defined on the same propositional language.

1. Preliminary remarks concerning $p$-consequence operation

A concept of $p$-consequence is supposed to be a formal tool in a description of plausible reasoning [2]. This kind of reasoning is assumed to weaken the requirement for consequence operation to two conditions only: reflexivity and monotonicity. The third clause for consequence operation, i.e. idempotency expresses the fact that the conclusions of conclusions of a given set are conclusions of that set as well. The same fact can be described in terms of degree of certainty - conclusion is true at least in the same degree as premises are. So, we do not require that the condition of idempotency is valid for any plausible consequence. This approach is strictly related to

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