## Topologies and Uniformities on $d_0$ -algebras

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## Abstract

The structure of a  $d_0$ -algebra is a generalization of a D-lattice. On such a structure, a  $d_0$ -uniformity is a uniformity which makes the operation uniformly continuous. This generalizes the concept of D-uniformity on D-lattices as well as of Frechét–Nikodym topology on Boolean algebras.

We show that a  $d_0$ -uniformity is univocally determined by its induced topology and precisely by the neighborhoods of 0. Moreover we describe some ways of defining a  $d_0$ -uniformity.