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Frames with transitive structures. (English)

The purpose of the paper is to give a point-free variant of the theory of (quasi-)uniformities with transitive bases. For this, the authors consider a frame (i.e. a complete lattice satisfying the distributive law $x \wedge \vee S = \vee \{x \wedge s \mid s \in S\}$ for $x \in L$, $S \subset L$). Now a (quasi-)uniformity with a base of transitive entourages is suitably defined on L and the properties of this structure are studied.

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Keywords : transitive uniform frames; quasi-uniform frames; completion; compactification

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