

Exact topological analogs to orthoposets

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Abstract

An arbitrary orthoposet E is shown to be isomorphic to (ε, C, c) , ε being a subbasis of a Hausdorff topological space S satisfying 1) $S \in \varepsilon$, 2) $\alpha \in \alpha c \in \varepsilon$, and 3) every covering of S by elements of ε possesses an at most 2-element subcovering. The couple (S, ε) turns out to be unique. © 1997 American Mathematical Society.

Keywords

Orthopair, Orthoposet, Subbasis, Zero-dimensional compact topological space