

Orthomodular semilattices

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Abstract. A semilattice $\mathcal{S} = (\mathcal{S}; \wedge, \mathbf{0})$ with the least element $\mathbf{0}$ is called **orthosemilattice** if the interval $[\mathbf{0}, a]$ is an ortholattice for each $a \in \mathcal{S}$. \mathcal{S} is called an **orthomodular semilattice** if $[\mathbf{0}, a]$ is an orthomodular lattice for each $a \in \mathcal{S}$. We will present simple identities characterizing varieties of these semilattices. The so-called compatibility condition will be discussed.