

TOPOLOGICAL DUALITIES FOR MANY-VALUED LOGICS

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Duality methods have been extremely useful in the study of various types of algebras and logics that have lattice reducts. This has been relatively less so for those based on chains. In recent years duality methods for lattices with additional operations have evolved significantly and the tools needed to apply duality to classes of algebras generated by chains are available. In this talk we give an introduction to duality theory with particular emphasis on my joint work with Hilary Priestley on ‘double-quasioperator algebras’, a class containing the lattice ordered algebras generated by chains.

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