

Equational Bases for Joins of Subvarieties of Algebras of Non-Classical Logics

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Abstract:

In this talk we present a general method for finding equational bases of joins of (relative) subvarieties of classes of algebras constituting equivalent algebraic semantic of some algebraizable logics. The main ingredient is to identify the suitable 'disjunction' which, roughly speaking, describes the intersection of two deductive filters. This work is based on the submitted paper P. Cintula, C. Noguera: "The Proof by Cases Property and its Variants in Structural Consequence Relations" and is inspired (and substantively generalizes) the paper N. Galatos: "Equational Bases for Joins of Residuated-lattice Varieties". *Studia Logica* 76(2): 227-240, 2004.