Algebra/Topology Seminar

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Natural Duality for the Algebra of Conditional Logic

Thursday, October 11, 2012
1:15 p.m. in ES-143

ABSTRACT. This is joint work with Gina Kucinski. The algebra of conditional logic, first studied by Guzman and Squier, is a model for short-circuit evaluation in programming languages like C. Here we will present a natural duality, in the sense of Clark and Davey, for the variety of C-algebras. The dual category consists of partially ordered sets with bottom element, and a partially defined glb operation. These posets satisfy the property that existence of an upper bound implies existence of a greatest lower bound.