



Speaker: Curtis Franks
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Thursday, December 5, 2013
2:00 PM
125 Hayes-Healy Hall

Title: Admissible Inference Rules

Abstract:

The admissible rules of a logical system are the rules under which its set of theorems is closed. For many familiar logical systems, the admissible rules are also derivable, i.e., they are each represented among the set of theorems itself. More interesting are "structurally incomplete" logics with undervivable admissible rules. Axiomatizing the admissible rules of a logic is often harder than axiomatizing its theorems. Also the presence of undervivable admissible rules is related to the expressive strength of the logic. I will survey some recent results about the complexity of the space of admissible rules, the interpretation of structurally incomplete logics, and some of the central open problems.