

A Semantic Hierarchy for Intuitionistic Logic

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I will report on joint work with Guram Bezhanishvili investigating superintuitionistic propositional semantics that are more general than Kripke semantics. The focus will be on a family of semantics that can be seen as based on the concept of a nucleus from pointfree topology: Beth semantics, Dragalin semantics, and Fairtlough-Mendler semantics. Some of the work reported will appear in the paper “A Semantic Hierarchy for Intuitionistic Logic” forthcoming in a special issue of *Indagationes Mathematicae* on “L.E.J. Brouwer, fifty years later.”