1053-03-40   **Wim Ruitenburg*** (`wimr@mscs.mu.edu`), Department of Mathematics, Marquette University, P.O. Box 1881, Milwaukee, WI 53201. *Model theory for intuitionistic predicate calculus.*

Model theory for intuitionistic predicate logic dates back at least to the 1960s with work by Kripke, Mints, and others. We discuss a recent renaissance with work along the lines of Visser, Ellison, Fleischmann, McGinn, Ruitenburg, Morteza Moniri, and Zaare. We consider preservation theorems reminiscent of the Chang-Łos-Szusko theorem, as well as formula hierarchies generalizing the classical ones of the forms Π^0_n and Σ^0_n. (Received July 12, 2009)

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