A Non-Classical ω-Categorical Theory

S.M. Bagheri
IPM and Tarbiat Modarres University
Tehran, Iran

We study a certain class of Kripke models containing classical ones over which there exists a well behaved embedding relation. We add suitable axioms to intuitionistic logic and show completeness of the resulting intermediate logic with respect to that class. Then we examine some usual classical arguments in this setting. In particular, we prove a normal form theorem for open formulas and use it to obtain non-classical ω-categorical theories which have quantifier elimination.