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Title: Algebra-Valued Models of Non-Classical Set Theories: A Focus on Paraconsistency

In this presentation, we first introduce the Boolean-valued model construction of classical set theory. Then by following the construction we introduce the generalized algebra-valued models of (classical and) non-classical set theories. We particularly focus on the Paraconsistent set theory. Then the foundation of mathematics will be discussed inside those non-classical models. Finally, the presentation ends with a new interpretation function on the algebra-valued models to modify a few “drawbacks” of the study.