

A COMPUTABLE STRUCTURE WITH NON-STANDARD COMPUTABILITY

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We find an example of a computable admissible set whose level of computability is higher than that of the standard model of Peano arithmetic. As a byproduct, we construct a 1-decidable model of an undecidable submodel complete theory.

Key words and phrases: admissible set, hyperadmissible set, hereditarily finite superstructure, recursively saturated model, computable model, decidable model, Σ -reducibility, Σ -definability.

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