

1107-03-388

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Reverse model theory.

In this talk we will discuss some model-theoretical results from the point of view of reverse mathematics. We will present several new results that deal with the question about the number of models of a theory, in particular the question of existence of the Ryll-Nardzewski function. We will also examine the strength of statements about existence of universal and saturated models. This is a joint work with Li Wei and Daniel Turetsky. (Received January 19, 2015)