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Uri Andrews* (andrews@math.wisc.edu), **Mingzhong Cai**, **David Diamondstone**, **Joseph S Miller** and **Steffen Lempp**. *Recursively presenting models of Solovay theories*. Preliminary report.

If a theory has a recursive model, then the \exists_n fragment of the theory is uniformly Σ_n . Theories which have this property are called Solovay theories. Not all Solovay theories have recursive models. We characterize the Turing degrees which present models of every Solovay theory as those Turing degrees which present non-standard models of true arithmetic. (Received February 28, 2013)