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Victor W. Marek*, marek@cs.uky.edu. *Investigating relationship between Logic Programming and Recursion Theory - Jeffrey B. Remmel contributions.*

We discuss contributions of J.B. Remmel and his collaborators to the investigations of relationship between Logic Programming and Recursion Theory. Specifically, we will discuss the basic complexity result for so-called stable models of (predicate) logic programs, complexity results for the index sets of various classes of predicate logic programs, properties of so-called Gelfond-Lifschitz operator, and the algorithm for computation of the stable models of propositional logic programs. (Received September 21, 2018)