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Relatively decidable theories

A computably enumerable theory T is relatively decidable if for every countable model of T , the elementary diagram is computable from the atomic diagram. In this talk, I will discuss joint work with Jennifer Chubb and Russell Miller about relatively decidable theories and about the uniform version of this property. Recently, Matthew Harrison-Trainer has disproved a conjecture characterizing relatively decidable theories by showing that the index set for these theories is Π_1^1 complete.