Countably categorical algebras in locally finite varieties

The general point of model theory is to construct models through different aspects, statisfying a given set or class of formulas. In such an environment, ω-categoricity can be taken both as a gift and a burden. When we want to produce as many different models as we can, categoricity can quickly cut down the numbers. When we want a structure to be as clean-cut as it can be, categoricity is of great help. In this thesis, our point of view will be the latter. We will be focusing on constructing an ω-categorical algebra in such a way, that given any finite algebra, we can use this method to modify it just little enough for it to be ω-categorical, while it still continues to model everything the original did.

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