

Admissibility in Finite Algebras

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The admissibility of a quasiequation in a finite algebra corresponds to the validity of that quasiequation in a finite free algebra, and is hence decidable. However, a naive approach to checking admissibility leads to computationally unfeasible procedures even for small algebras, and tells us little about the properties of admissible quasiequations for the algebra in question.

The aim of this talk is to explain, first, a uniform method for obtaining algorithms for checking admissibility in finite algebras, and, second, a strategy using natural dualities for axiomatizing admissibility in these cases.