

Variant of adjunctive set theory which are not sequential

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This talk will be based on work in progress.

The concept of sequential theories was introduced by Pudlák [1] in the study of degrees of local interpretability. Formally, sequential theories are theories that, up to extensions-by-definitions, contain adjunctive set theory AS, that is, the weak set theory given by the following two non-logical axioms

$$\exists x \forall y [y \notin x] , \quad \forall xy \exists z \forall u [u \in z \leftrightarrow (u \in x \vee u = y)] .$$

This talk will be about some recent results where we show that certain theories which are known to be mutually interpretable with AS are not sequential.

References

1. Pudlák, P.: Some Prime Elements in the Lattice of Interpretability Types. Transactions of the American Mathematical Society, 280(1), 255–275 (1983).