Disquotational Truth and Analyticity

Volker Halbach

The uniform reflection principle for the theory of uniform T-sentences

$$\forall x(TA(\dot{x}) \leftrightarrow A(x))$$

is added to PA. The resulting system is justified on the basis of a disquotationalist theory of truth where the provability predicate is conceived as a special kind of analyticity; it is equivalent to the system ACA of arithmetical comprehension.

If the truth predicate is also allowed to occur in the instances of the T-sentences, yet not in the scope of negation, the system with the reflection schema for these stronger T-sentences assumes the strength of the Kripke-Feferman theory KF and thus to ramified analysis up to ϵ_0.

Address: Universität Konstanz, Fachgruppe Philosophie, Postfach 5560, 78434 Konstanz, Germany
E-mail: Volker.Halbach@uni-konstanz.de