Unfolding feasible arithmetic

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The notion of *unfolding a schematic formal system* was introduced in Feferman [1] in order to answer the following question:

Given a schematic system S, which operations and predicates, and which principles concerning them, ought to be accepted if one has accepted S?

For non-finitist arithmetic which allows arbitrary first-order quantification, and finitist arithmetic allowing only existential quantification, this program has been carried out by Feferman and Strahm in [2] and [3]. The aim of the present contribution is to elucidate the concept of unfolding in the context of the schematic system for *feasible arithmetic* FEA in order to answer the question of what principles are implicit in allowing only *bounded* existential quantification.

References

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