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Many Levels of Infinities and Multidimensional van der Waerden's Theorem

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There could be more than one elementary embedding between a model and its elementary extension. We develop a nonstandard analysis framework by iterating ultrapower constructions and present two different elementary embeddings at each stage. We hope that this framework gives powerful tools in applications. As a testing case we give a nonstandard proof of multidimensional van der Waerden's theorem by a single induction within this framework.

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