

# Constructive set theory with rules

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We introduce weak systems of constructive set theory with urelements which also embody a notion of (self applicable) operation.

The resulting set theories are proof theoretically weak but allow for inductive constructions, being therefore of interest for carrying out metatheoretical studies. The systems can also be seen as a bridge between two distinct traditions of foundations for constructive mathematics, mainly Aczel's constructive Zermelo Fraenkel set theory and Feferman's explicit mathematics.