

- ▶ TIN ADLEŠIĆ, AND VEDRAN ČAČIĆ, *Model constructions of NFU*.
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Theory NF, short for New Foundations, was first introduced by Quine in 1937 as the middle way between type theory and ZF. During the search for consistency proof for NF, Jensen weakened the theory in 1969 by allowing the existence of atoms (urelements), and thus proved the consistency of this new modified theory, abbreviated by NFU. Jensen's model construction for NFU is rather hard to follow, so in 1977 Boffa presented a simplified version of it. Moreover, Boffa also presented in 1988 a completely new way of model construction from ZF. The third construction uses ultraproducts, and it was introduced by Holmes. We will present all three constructions with an emphasis on construction using ultraproducts. We will simplify this construction and develop it in a more straightforward way.

[1] M. BOFFA, *The Consistency Problem for NFU*, *The Journal of Symbolic Logic*, 1977.

[2] M. BOFFA, *ZFJ and the consistency problem for NF*. *The Consistency Problem for NFU*, *Jahrbuch der Kurt Gödel Gesellschaft 1*, 1988.

[3] R. HOLMES, *Strong Axioms of Infinity in NFU*, *The Journal of Symbolic Logic*, 2001.

[4] R. B. JENSEN, *On the Consistency of a Slight (?) Modification of Quine's "New Foundations"*, In *Hintikka (ed.), Words and objections: Essays on the Work of W. V. Quine.*, 1969.