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ZF + “every set is the same size as a wellfounded set”. (English) [Zbl 1044.03037](#)
J. Symb. Log. 68, No. 1, 1-4 (2003).

ZF is Zermelo-Fraenkel set theory with the axiom of foundation but without the axiom of choice. ZFB is ZF with the axiom that says that every set is the same size as a wellfounded set. ZFAFA is ZF with foundation replaced by the Forti-Honsell antifoundation axiom, which says that every accessible pointed digraph is the \in -picture of a unique set. The author proves that: every sentence true in every permutation model of a model of ZF is a theorem of ZFB; ZF and ZFAFA are both extensions of ZFB, conservative for stratified formulæ; the class of models of ZFB is closed under creation of Rieger-Bernays permutation models. This paper is a continuation of the work of Jean Cochet on ZF and illfounded sets.

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MSC:

[03E25](#) Axiom of choice and related propositions

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[illfounded sets](#); [ZF](#); [permutation model](#)

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References:

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