

Re: Well Ordering the Reals

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- *From:* "Ross A. Finlayson" <raf@xxxxxxxxxxxxxxxxxx>
 - *Date:* 10 Nov 2005 13:25:10 -0800
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Hi,

I promote the null axiom theory towards completeness in a theory, and for other reasons. An "axiomless" system of natural deduction is without the "non-logical", or "proper" axioms, for example the axioms of Zermelo-Fraenkel set theory, while still having first-order predicate logic and its axioms that resolve to tautology, identity, equality.

Some of the "axioms" of ZF I think are very well "theorems" of the null axiom theory, FNAT the Finlayson Null Axiom Theory, or the NAT, an Axiom Free Theory or AFT, a set, number, geometrical, and physical theory.

There is basically nothing then (or) not nothing ad infinitum to generate a fundamental sequence of sorts and then inference of things infinite, ie "paradoxes" are used to impose structure, and alternative, of sorts, besides some initial sequencing.

There is some notion of paraconsistency, that is, inconsistency, in the dialethic dually-self-intraconsistent ur-element, thus that the inconsistency is negligible because the opposite of the truth in that sense is a truth, for example, in problems with the LEM, the law of excluded middle. Similarly completeness follows.

Basically, the agreement on any one true fact, and all its implications, where that is basically restricted to numbers, a null axiom, leads to something for nothing.

That seems whimsical, perhaps, even absurd.

Ross

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- *References:*
 - ◆ *Re: Well Ordering the Reals*

Re: Well Ordering the Reals

◇ *From:* Robert Low

◆ ***Re: Well Ordering the Reals***

◇ *From:* Tony Orlow

◆ ***Re: Well Ordering the Reals***

◇ *From:* Randy Poe

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