

Re: arithmetic in ZF

Source: <http://sci.tech-archive.net/Archive/sci.logic/2005-05/msg00066.html>

- *From:* "Ross A. Finlayson" <raf@xxxxxxxxxxxxxxxxx>
 - *Date:* 4 May 2005 03:57:08 -0700
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Hi Graham, Dr. Priest,

On sci.logic we are discussing arithmetic in ZF and got to discussion of the Domain Principle. Your book "Beyond the Limits of Thought" was quoted, I wonder if you might have something to say, on sci.logic on the thread "arithmetic in ZF".

<http://groups-beta.google.com/group/sci.logic>

Where I'm coming from, I'm an amateur logician who advocates a theory free of non-logical axioms, and think that that theory can thus be Goedelianly complete, and the axioms of set structure of ZFC minus the regularity axiom are theorems of the Null Axiom or Axiom-Free theory, which is a theory with sets, numbers, or physical or geometric objects as primary objects, at once.

Basically it has an ur-element that is dually minimal and maximal, I've gotten to calling it "dually-self-intraconsistent". In scanning some few words of yours written on the Internet, and about dialetheism, it's basically about Janus' introspection. I have the singular ur-element, which is as well a set and the proper class, where there can be only one proper class, being at once the root of the Liar, the Russell set, infinity, the empty set, Kant's Ding-an-Sich and Hegel's Being and Nothing, and the void from which all springs. Particularly for the Liar and Russell, and parallelly for Cantor/Burali-Forti/apeiron, I've discussed that on sci.math and sci.logic for some years.

I think infinite sets are equivalent, I show that, basically with ubiquitous ordinals or naturals in the cumulative hierarchy, and work on some analytical tools that have to do with bijections between the natural integers and unit interval of the real numbers, with nonstandard real numbers that have atomic infinitesimal iota-values, indubitably, as a logical consequence of their structural consequence, for the normal ordering of the positive reals being its natural well-ordering.

I don't only promote a theory with zero non-logical (or proper) axioms, I promote that it's first-order logic and that it's the only true theory.

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This is basically towards Deep Foundations, and to some extent a theory of everything.

I hope this serves as a decent introduction, my name's Ross, Ross A. Finlayson, USA, I post this to you via e-mail and onto that thread on the sci.logic discussion forum. I'm interested in your opinion, and would be made happy to receive a reply, publicly or privately.

Thank you,

Ross Finlayson

• *Follow-Ups:*

- ◆ **Re: arithmetic in ZF**
◇ *From:* Ross A. Finlayson

• *References:*

- ◆ **Re: arithmetic in ZF**
◇ *From:* Barb Knox
- ◆ **Re: arithmetic in ZF**
◇ *From:* Ross A. Finlayson
- ◆ **Re: arithmetic in ZF**
◇ *From:* Chris Menzel
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◇ *From:* Bhupinder Singh Anand
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