

Re: Well Ordering the Reals

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-11/msg01324.html>

- *From:* Tony Orlow <aeo6@xxxxxxxxxxxx>
 - *Date:* Wed, 9 Nov 2005 15:51:41 -0500
-

Randy Poe said:

>
> Tony Orlow wrote:
>> Randy Poe said:
>>> So if you declare something like "all sequences contain their limits",
>>> then you can prove it pretty easily. Since that will give a result
>>> which is both provably true and provably false, it might cause
>>> other people problems. But you've shown in the past you have
>>> no problem accepting such things.
>> Of course I do, and this is exactly what I was saying about axiomatic systems.
>> You can prove anything just by declaring it as an axiom, but that's just a
>> waste of time.
>
> And leads, as here, to self-contradiction.
>
>> Axioms must be justified logically based on more fundamental
>> facts.
>
> Nonsense.
>
>> But, you're not making much sense here.
>
> No? Let me try again: we have a set of self-consistent axioms. You
> can't prove anything to be both true and false within that system.
>
> You have several different new axioms YOU want to add, any one
> of which will introduce contradictions in the system that weren't there
> before.
>
> Without your additions, we can prove certain things true and other
> things false, but nothing is both true and false.
>
> With your additions, everything is provably true and false.
>
> So there's no incentive for your additions. As you say, a waste of
> time.
>
> - Randy
>

Re: Well Ordering the Reals

>

Actually, most of the standard axioms would get scrapped regarding anything transfinite. I don't think this foundation can be properly fixed without removing the rot, or we'll never get rid of the bugs or the cracks in the walls. Of course, I understand you're attached to the sill and the post, having become part of the infrastructure, and I apologize, but promise they will be recycled appropriately.

—

Smiles,

Tony

<http://www.people.cornell.edu/pages/aeo6/WellOrder/>

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• **References:**

- ◆ ***Re: Well Ordering the Reals***
◇ *From: Robert Low*
- ◆ ***Re: Well Ordering the Reals***
◇ *From: Tony Orlow*
- ◆ ***Re: Well Ordering the Reals***
◇ *From: Randy Poe*
- ◆ ***Re: Well Ordering the Reals***
◇ *From: Tony Orlow*
- ◆ ***Re: Well Ordering the Reals***
◇ *From: Randy Poe*

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