

Re: Transfinite exhaustion

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- *From:* "Martin" <sleziak@xxxxxxxxxxxxxx>
 - *Date:* 25 Nov 2005 05:34:27 -0800
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I actually didn't remember the exact proof – was quite a long time ago. As far as I remember, he started using the simple fact that between 2 values we can find another one and then he was able to approximate every value somehow... or something like that.

My interest in this term is that I recently made some proofs using this method – I construct some system by transfinite induction and at some step the transfinite process stops – and at this step I obtain the object, whose existence I wanted to prove. The argument, why I must stop at some point, is that otherwise there would be a proper class of some objects – which is a contradiction.

It seems quite possible to rewrite proofs like these using ZL (actually I'm too lazy to write it down). So I hoped to find analogous kind of proof somewhere – to persuade myself, that this method is kind of standard.

Martin

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- *References:*
 - ◆ ***Transfinite exhaustion***
 - ◇ *From:* Martin
 - ◆ ***Re: Transfinite exhaustion***
 - ◇ *From:* Stephen J. Herschkorn
- Prev by Date: ***Re: it's just simple questions..please answer these.***
- Next by Date: ***Re: Well Ordering the Reals***
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