

Re: abundance of irrationals!)

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-05/msg01899.html>

- *From:* "Russell" <russell@xxxxxxxx>
 - *Date:* 10 May 2005 14:06:48 -0700
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aeo6 Tony Orlow wrote:

> Russell said:

>> aeo6 Tony Orlow wrote:

>>> Russell said:

>>>> aeo6 Tony Orlow wrote:

>>>>

>>>> [snip]

>>>>

>>>>> Excuse me, but the nodes of an infinitely deep binary tree can

>>>>> obviously be

>>>>> enumerated in a linear manner, corresponding to binary integers

>> and

>>>> thus to the

>>>>> naturals.

>>>>

>>>>> Yes.

>>>>

>>>>> If you want to complain that it would require infinite digits for

>>>>> most values,

>>>>

>>>>> Huh? What does that even mean? What values are you

>>>>> talking about? And digits of what?

>>>> Duh. The digits of the binary number that represent each node on the

>> tree,

>>

>> Ok; if that's what you mean, then each node on the tree

>> is represented by a *finite* sequence of digits.

> The tree has infinitely long branches, so no, you're wrong.

Well, this is the essence of our disagreement, and if we can't get this basic thing cleared up then there's no point in my going further with the discussion.

Now, I haven't been following this thread, so I don't know what your position is on the following question: Do

you believe there is some natural number with infinitely many digits? If you don't, then there is some hope, but otherwise, i.e. if you do, I think I will bow out as there cannot be anything for me to add to the discussion that has not already been said.

[snip]

• *Follow-Ups:*

- ◆ *Re: abundance of irrationals!*
◇ *From:* aeo6

• *References:*

- ◆ *Re: abundance of irrationals!*
◇ *From:* Randy Poe
- ◆ *Re: abundance of irrationals!*
◇ *From:* mueckenh
- ◆ *Re: abundance of irrationals!*
◇ *From:* Virgil
- ◆ *Re: abundance of irrationals!*
◇ *From:* mueckenh
- ◆ *Re: abundance of irrationals!*
◇ *From:* Randy Poe
- ◆ *Re: abundance of irrationals!*
◇ *From:* mueckenh
- ◆ *Re: abundance of irrationals!*
◇ *From:* Randy Poe
- ◆ *Re: abundance of irrationals!*
◇ *From:* aeo6
- ◆ *Re: abundance of irrationals!*
◇ *From:* Russell
- ◆ *Re: abundance of irrationals!*
◇ *From:* aeo6
- ◆ *Re: abundance of irrationals!*
◇ *From:* Russell
- ◆ *Re: abundance of irrationals!*
◇ *From:* aeo6

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