

Re: Cantor Confusion

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- *From:* Carsten Schultz <carsten@xxxxxxxx>
 - *Date:* Fri, 16 Mar 2007 14:35:55 +0100
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mueckenh@xxxxxxxxxxxxxxxxxxxxx schrieb:

On 16 Mrz., 01:31, Virgil <vir...@xxxxxxxx> wrote:

In article <1173954799.919385.61...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>,

For even binary trees (where even here means all paths are of equal length),

Only those are under discussion here.

the number of paths increases exponentially with number of levels (lengths of a path). Adding 1 to the number of levels doubles the number of paths.

The tree is continuous because its nodes are connected by paths.

That is a distinctly non-standard meaning for "continuous" in mathematics.

It shows, however, that the number of paths cannot jump from finite to uncountable.

Using a word does not constitute proof.

And indeed $\sup_{n < \aleph_0} 2^n = \aleph_0 < 2^{\aleph_0}$, so in this sense the function $\kappa \mapsto 2^\kappa$ is not continuous. If you can prove (not claim!) by using your tree that it is, then you will finally have succeeded in showing that ZF is inconsistent.

Have fun,

Re: Cantor Confusion

Carsten

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Carsten Schultz (2:38, 33:47)

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PGP/GPG key on the pgp.net key servers,
fingerprint on my home page.

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