

Re: Cantor Confusion

Source: <http://sci.tech-archive.net/Archive/sci.math/2007-03/msg03135.html>

- *From:* mueckenh@xxxxxxxxxxxxxxxxxxxx
 - *Date:* 15 Mar 2007 03:33:20 -0700
-

On 13 Mrz., 14:15, "Dik T. Winter" <Dik.Win...@xxxxxx> wrote:

In article <1173724460.248046.46...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
mueck...@xxxxxxxxxxxxxxxxxxxx writes:

Terminating paths.

Passing path-bundles.

Those are *terminating* paths. (A path-bundle can be seen as a terminating path: it is a set of nodes containing a finite number of nodes.)

A path bundle splits off into two bundles which pass said node.
Therefore every set of path-bundles in the tree has a finite cardinal number

This, in the "limit", may yield an infinite number, but certainly not an uncountable number without having an intermediate countably infinite number.

The tree is continuous because its nodes are connected by paths. There is never more than the factor 2. There are no interruptions possible and no jumps from "finite" to "uncountable". Your claim would require that.

Regards, WM

PS: What about the review of chapter 10?

.