

Re: Dimensionality And The Multiple Reality Context

Source: <http://sci.tech-archive.net/Archive/sci.physics/2005-08/msg04095.html>

- *From:* "Timothy Golden <http://www.BandTechnology.com>" <ttppppggg@xxxxxxxxx>
 - *Date:* 27 Aug 2005 06:41:58 -0700
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mountain man wrote:

- > Dimension need not be defined as an integer
- > in order to gain more degrees of freedom.
- > Look at the fractional dimension concept
- > worked on and popularised by Mandelbrot
- > as the fractal dimension.
- > http://en.wikipedia.org/wiki/Hausdorff-Besicovitch_dimension

I am somewhat familiar with fractal dimension. I don't see any connection with the polysigned system though.

Another troubling thing is the ability to turn many dimensions into angular dimensions. So for example (x,y,z) can be (r,θ,ϕ) without conflict.

The angular dimensions have tremendous redundancy yet do not cause any conflict. Could we argue that the redundancy allows the angular dimensions to carry more information? So that an angle of 10.23 rotations has some difference in meaning from one of 1.23 rotations. I think that there is an ability to squeeze a little more information out of them. They are in effect yielding natural values atop the continuous range that we traditionally take as their meaning. So, relative to the cartesian counterpart, the spherical coordinate system has two additional natural dimensions. I am not a magician so I am feeling pretty convinced that this is true. But perhaps you can bring in a conflict with the use of real numbers for angular measure.

-Tim

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- *References:*
 - ◆ ***Dimensionality And The Multiple Reality Context***
 - ◇ *From:* Tim Golden
 - ◆ ***Re: Dimensionality And The Multiple Reality Context***

Re: Dimensionality And The Multiple Reality Context

◇ *From:* mountain man

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