

## Re: Epistemology 201: The Science of Science

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Lester Zick wrote:

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- > *The problem is the definitions don't describe circloids. As just*
- > *pointed out in a collateral reply, the definition "the set of all*
- > *points equidistant from any point" equally describes points, lines,*
- > *circles, and spheres depending on which dimensionality one works in.*
- > *That makes spatial dimensionality itself the independent variable and*
- > *not points or the lack of spatial dimensionality. So if you want to*
- > *regress particular definitions to definitions of greater generality*
- > *you have to do it in terms of spatial dimensionality first.*

You have a restricted view of Space and of spaces. You do not take into consideration phase spaces wherein the states of physical system can be represented. You are still stuck back in the Newtonian era of pure mechanics. Also note that mechanics as done by Newton is no longer the preferred methodology of physics. Old fashioned mechanics is a relic of the past.

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- > *What modern math tries to do is substitute a set theory of points and*
- > *dense infinities of points for geometry and spatial dimensionality. It*
- > *doesn't work. They try to make points the independent variable when it*
- > *only represents a derivative concept. Einstein tried the same thing.*
- > *He tried to make velocity the independent variable instead of space in*
- > *universal terms and wound up with all kinds of nonsense to accommodate*
- > *the irrationalities involved.*

Take note that neither of Einstein's relativity theories have ever been falsified, ever. Furthermore the special theory is one of the bases of quantum field theory, the most accurate physical theory ever formulated. It predicts over a wide variety of conditions and has never been falsified, ever. Einstein made several blunders in his physics but his theories of space and time are not among them.

Bob Kolker