

Re: Crank Magnet

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From: Uncle Al (UncleAl0_at_hate.spam.net)

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David McAnally wrote:

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> *Uncle Al <UncleAl0@hate.spam.net> writes:*

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> *>No self-consistent mathematical construct can be internally falsified,
> >Euclid or Einstein. Euclid fell when his Fifth (Parallel) Postulate
> >fell – Riemann, and Bolyai and Lobechevsky; then Thurston to do them
> >all,*

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> *I saw one person describe the work of Bolyai and Lobachevsky as a
> vindication of Euclid, on the basis that Euclid was aware enough to make
> his Fifth Postulate a Postulate, and not attempt to make it a Proposition.
> In other words, it vindicated Euclid because he never attempted to prove
> it, but chose, instead, to assume it.*

The number of parallel lines through a point not on a given line is not provable.

Euclid, of course, contains no errors. Euclid avoided using this Fifth Postulate whenever possible because he distrusted it. Euclidean geometry is merely incomplete – a special case of geometry in zero curvature. Add hyperbolic (negative curvature; Riemann) and elliptic (positive curvature; Bolyai and Lobechevsky) geometries and we're home, right? Nope! Thurston identifies eight fundamental simply-connected geometric 3-manifolds with compact quotients: E^3 , S^3 , H^3 , $S^2 \times R$, $H^2 \times R$, SL_2 , Nil, and Sol.

SR tacitly assumes $G=0$ and $h=0$.

GR tacitly assumes $h=0$.

QM tacitly assumes $G=0$ and $c=\text{infinity}$.

These are satisfactory approximations in their own balliwicks. Things get sloppy at interfaces (e.g. Planck distances). There is no physical theory that allows $G=G$, $c=c$, and $h=h$ simultaneously.

M-theory is utterly unproductive. Lattice quantum gravitation cannot reproduce GR. GR cannot be quantized. Stochastic electrodynamics cannot produce a Schroedinger equation to describe the hydrogen atom.

But wait! It's worse than that!

Even-parity metric gravitation with geodesic paths is exactly duplicated – every prediction down to the last decimal place – by odd-parity affine gravitation with autoparallel paths. Well shit howdy, they can't both be correct! $(x,y,z) \leftrightarrow (-x,-y,-z)$ either makes a difference (pseudotensors) or it does not (tensors). Newton, Einstein, lattice quantum gravitation, and 3/5 of M theory are parity-even. Anybody who identifies two test masses that reproducibly fall differently in vacuum falsifies