Re: "Memory" effects in a spinning solid

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- *Date*: Sat, 22 Apr 2006 20:36:38 −0000

On 2006−04−22, top9@xxxxxxxxx <top9@xxxxxxxxx> wrote:

> http://www.oswirus.krakow.pl/cat_14/gyroscope/
> A symmetric harnessed gyroscope accelerated to a given spinning
> frequency takes different time periods to stop, depending on the
> direction of previous spins. For repeated alternating, anticlockwise
> and clockwise spinning, the rotation period in both directions
> significantly increases, which is not the case when the gyroscope is
> repeatedly rotated in the same direction. Using the measurements it was
> observed, that the time of gyroscope's rotation was significantly
> lengthened or shortened, what indicates that it either increased or
> decreased the movement resistance of the gyroscope. The presented
> experimental results suggest the existence of anomalous movement
> resistance and demonstrate that a fixed spinning gyroscope displays
> unusual history−dependent movement resistance effects. The effect is
> real, large, reproducible and does not follow from experimental errors.
>
> The manuscript was reviewed thrice, according to the publishing
> procedure in "Physical Review Letters" within two year. The remarks of
> all the reviewers were taken into account during its correction.
> Because the publishing procedure for our manuscript in "Physical Review
> Letters" finished, we decided to publish it in Journal of Technical
> Physics, J.Tech. Phys., 46, 2, 107−115, 2005.

That could be the explanantion for why I perceive different spin rates when
I'm twirling in my office chair :)

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I have to go...I feel a little dizzy
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