

Re: 4 torus 90 degree interval axis rotation problem

Source: <http://sci.tech-archive.net/Archive/sci.math/2004-10/0882.html>

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Date: 10/03/04

Date: 3 Oct 2004 06:06:31 -0700

muzikmon@msn.com (Oliver H) wrote in message
news:<1a6707f3.0409302006.78d9d75f@posting.google.com>...
> *4 tauruses spin on set axes, every other one positioned at 90 degree*
> *intervals to the others, and complete a full 360 degree rotation in*
> *360 days. During what day, and how many rotations would each need to*
> *separately complete within that amount of time, until all 4 tauruses*
> *are eventually lined up?*
>
> *Please feel free to take a look at an example picture @*
> <http://www.ivosr.com/misc/torus.jpg>

Wording it for you, describing the artistic picture: << There are 4 rings one inside the other, each of which can rotate relative to the next outer ring along diametrical axes. Initially all rings are in a plane. Each ring can rotate with a time period T (360 days), when all the others are frozen without any self driven motion. After what time will all rings be in a plane again when driven independently? >>

Is that your problem? If so, it needs to be set up as a problem from mechanics/dynamics before getting into a mathematical solution. I mean involving directions and speeds/accelerations if any.

(Taurus is a bull. Even a flimsy ring, need not be toroidal, may do for your problem.)