

<http://www.2dplay.com/orbit/orbit.swf>*

- In class we discussed the “capture theory” of the Moon. I said that capture is “dynamically” unlikely. Try this game that simulates the dynamics of an object and try to put the object in orbit around the planets. It is not so easy.
- But I mentioned that the moons of Mars are thought to have been captured. Why?
 - More on capture theory:
http://www.windows.ucar.edu/tour/link=earth/moon/capture_theory.html&edu=elem

* Not in lecture notes posted yesterday. Will post link on web page.



Periods*

- Rotational
 - Orbital
 - Sidereal
 - Synodic
- } Measured with respect to something that is not rotating or orbiting

* Not in lecture notes posted yesterday

Question*

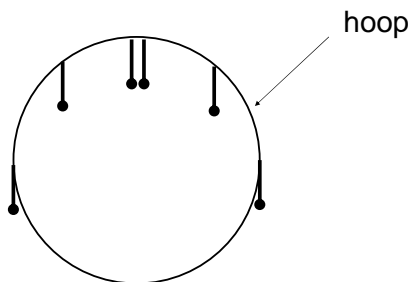
- Which is longer, Jupiter’s synodic or orbital period?
- Which is longer, Jupiter’s synodic or Saturn’s synodic period?
- Guess Jupiter’s and Saturn’s synodic period.

* Will post on web page as separate pdf

Question

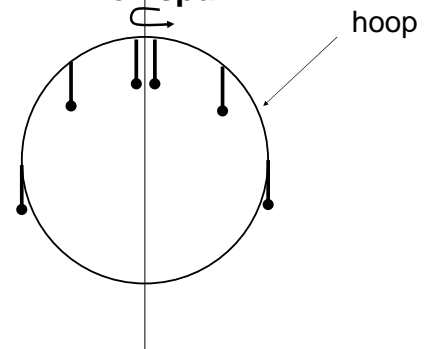
- Which is longer, Jupiter’s synodic or orbital period? **orbital**
- Which is longer, Jupiter’s synodic or Saturn’s synodic period? **Jupiter’s**
- Guess Jupiter’s and Saturn’s synodic period. **A little longer than Earth’s orbital period.**

How to get Oblate*

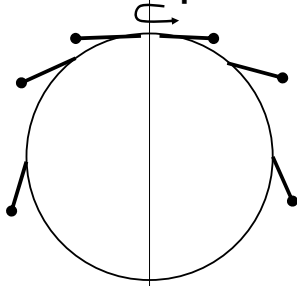


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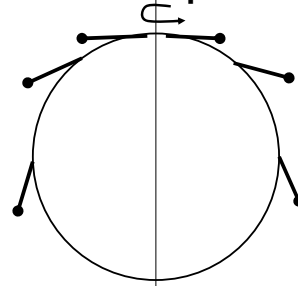
What happens to ornaments when spun?



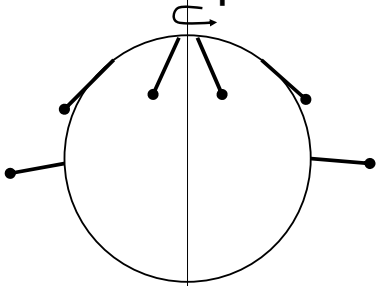
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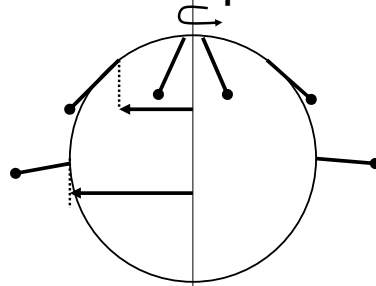
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What happens to ornaments when spun?



The farther away from the axis, the more "thrown out" it gets.