



but not in your bathtub
 The **Coriolis force**
 is far too weak
 over a few feet
 to affect the
 spiral in your
 tub.

There are also **SPIRAL GALAXIES**.
 The part where the spiral forms is made up of millions of hot young stars.
 These spirals are thought to be waves moving through the galaxy due to GRAVITY and ROTATION.

* Most galaxies are NOT spirals! These are special cases



this is the result of the "**Coriolis effect**," caused by the rotation of the earth.

... not really.

Hurricanes spin counter-clockwise in the Northern hemisphere but clockwise in the Southern hemisphere.



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Hurricanes, Galaxies, Nautilus Shells, Ferns -- each takes the general form of the "**LOGARITHMIC SPIRAL**."

* BUT *
 The causes behind their similar forms are actually quite different. (FYI: the "golden mean" rarely even fits in.)



Some are **DYNAMIC**. They are a balance of **ROTATION** and some **FORCE**: Gravity, Pressure Differences, other Galaxies, Hurricanes

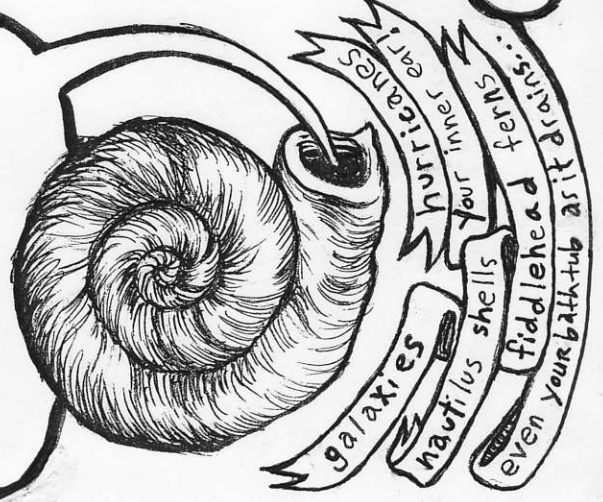


is there some mysterious connection?



we see spirals everywhere.

galaxies
 nautilus shells
 hurricanes
 ferns
 even your bathtub drains...



Words: J. Oishi pictures: C. Donner