

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

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

\* Most galaxies are  
NOT spirals! These  
are special cases

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

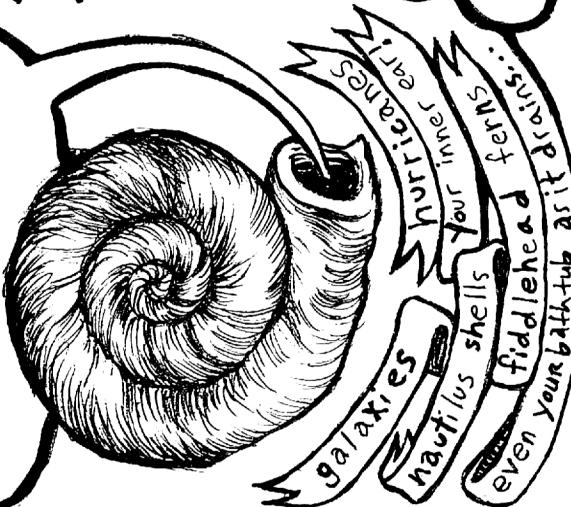
Hurricanes spin  
counter-clockwise  
in the Northern  
hemisphere but  
clockwise in the  
Southern hemisphere.  
... not really.



**DYNAMICS**  
Some things are a balance  
of forces: Gravity,  
rotation and some  
other differences  
between them are  
Galaxies, Hurricanes,  
Nautilus shells, the general  
shape of ferns...  
Galaxies, Nautilus shells, the general  
shape of ferns... each takes "LOGARITHMIC"  
form

is there some  
mysterious connection?

we see spirals  
everywhere.



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

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ENDLESS  
SPIRALS