

A. Seryi

# Unification of slow motion

A hypothesis

"A" of ATL is not constant  
it depend on geology

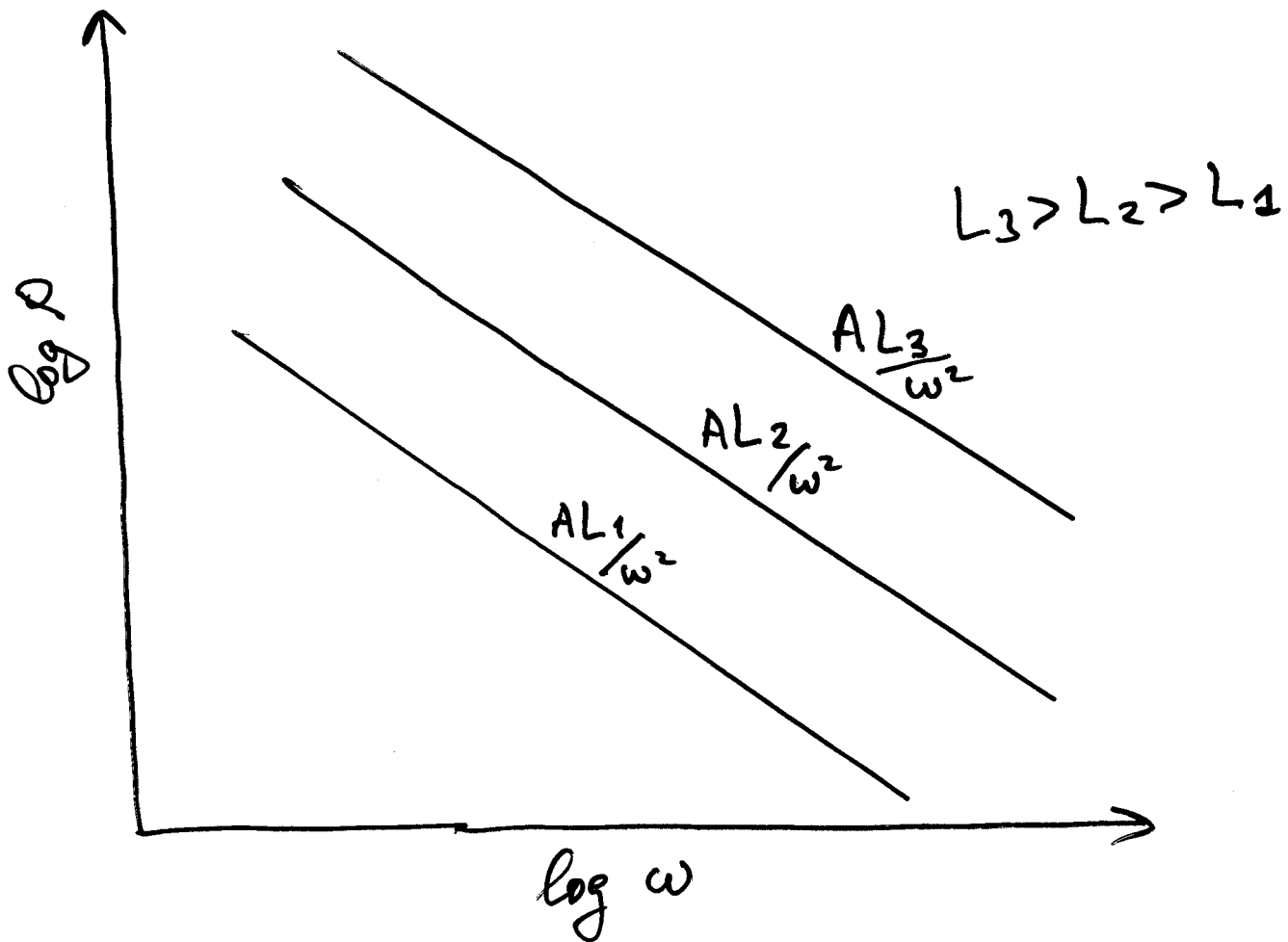
but it also depend on  
time scale!

"A" larger in year-to-year  
motion

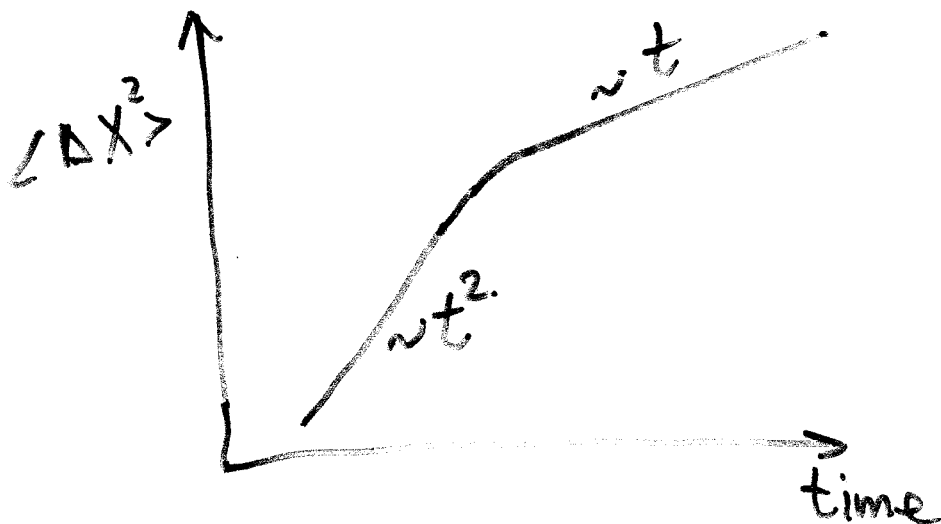
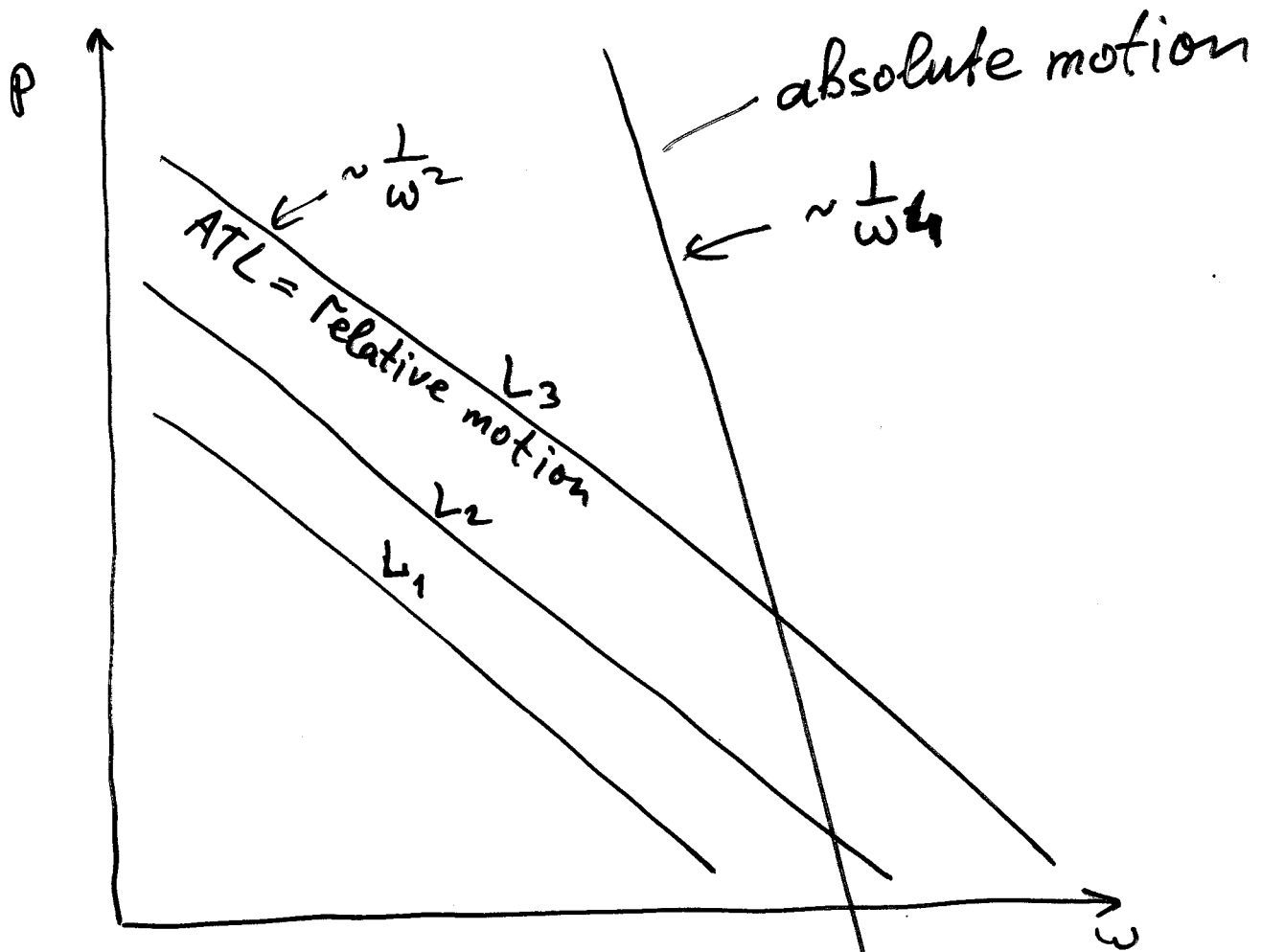
What is spectrum of ATL?

$$AX^2 = A \cdot T \cdot L \implies P = \frac{A}{\omega^2 \cdot k^2}$$

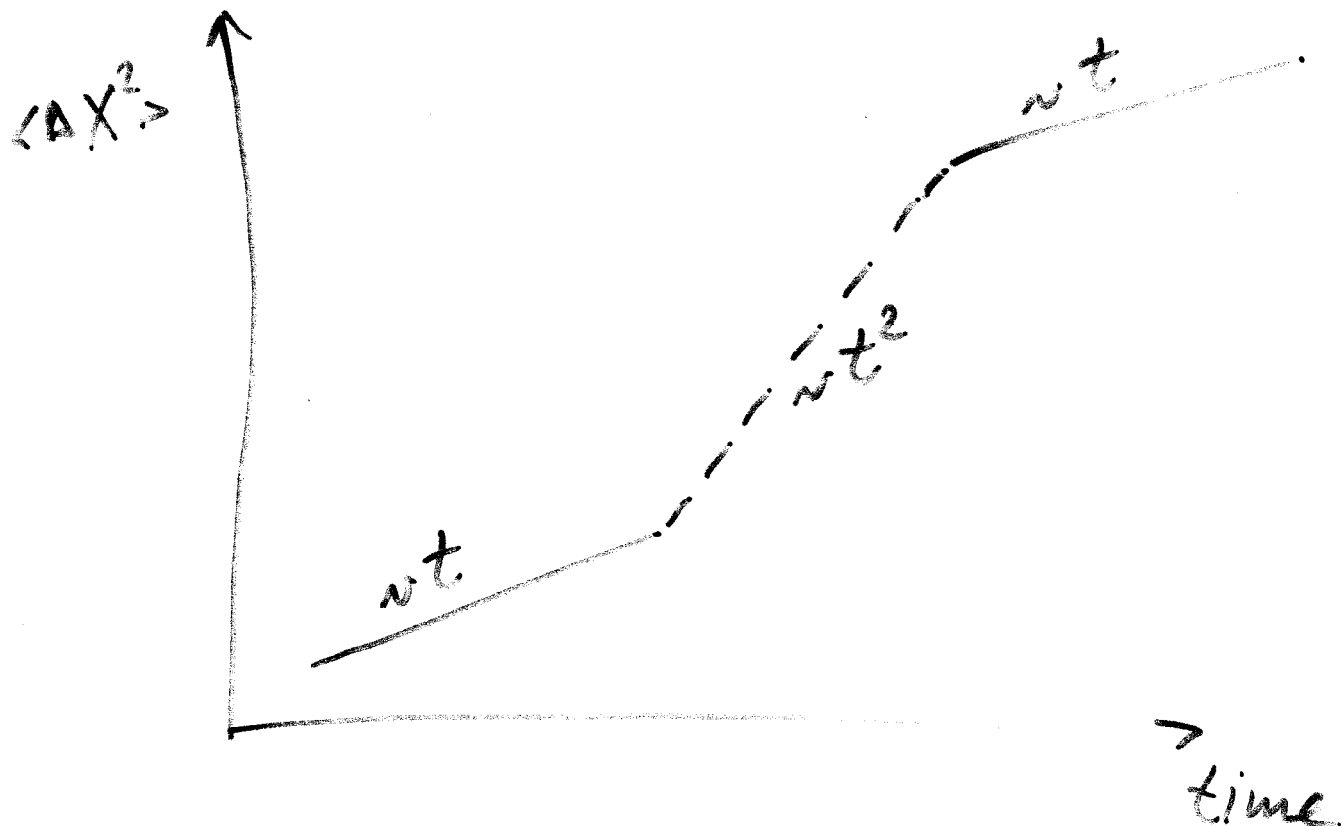
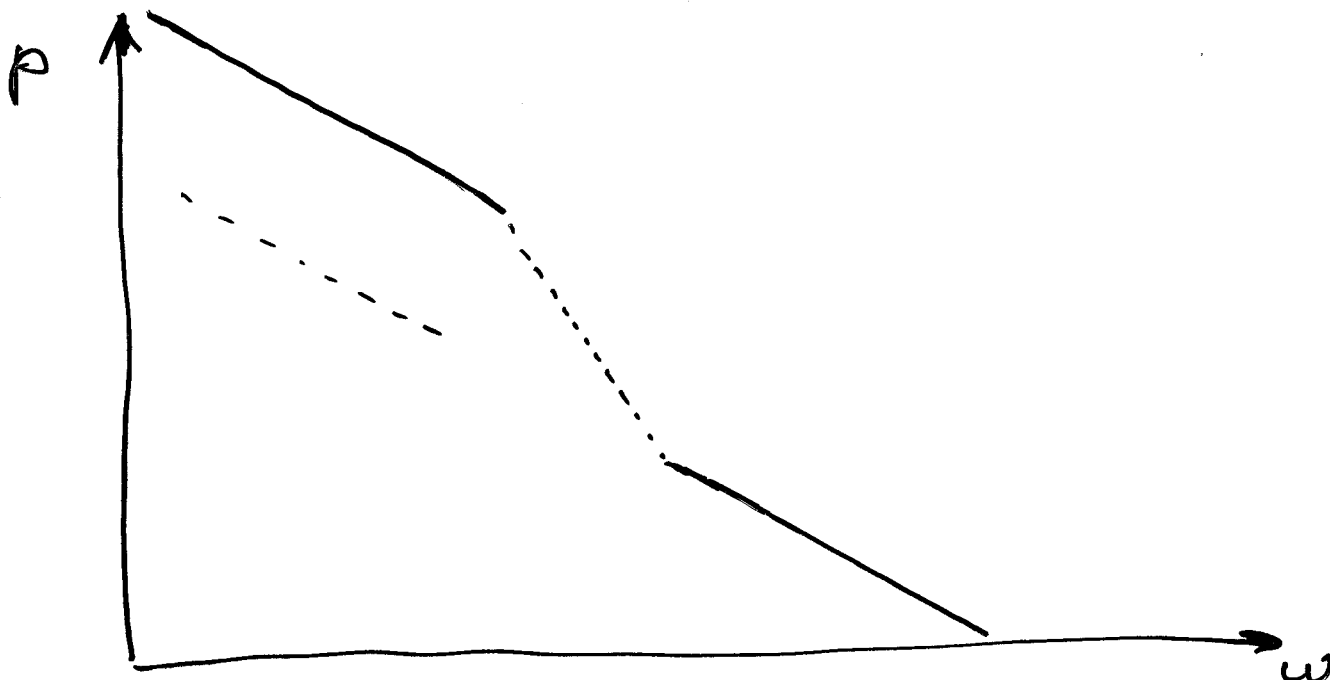
$$\text{or } P = \frac{A \cdot L}{\omega^2}$$



ATL fails at very short time scale  
( $\sim$  seconds)



What if "A" is much larger in very large time scale?



Conclusion:

Diffusive and systematic motion can be treated in similar manner.

And maybe can be understood in a more general global way.