Life as a manifestation of dynamical systems

Every biological system is governed by physical laws Every physical system changes over time The change of dynamical systems can be described, in approximation, with math:

Oridnary Differential Equations (ODEs)

We will simulate the dynamics of biological systems using ODEs.

- 1. Guest lectures by Professor Louis Calculus reminder
- 2. A Scipy function "solve_ivp"
- 3. Examples of simulation of biological systems using "solve_ivp"

Working knowledge of Numpy is required.

Cf) "solve_ivp" is a recent replacement of an older function "odeint". Both work well in our classes.