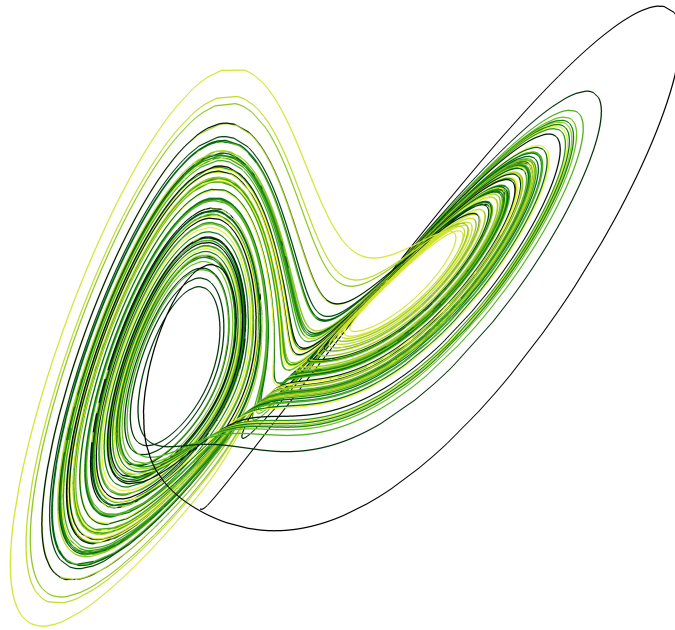


MATH B210: DIFFERENTIAL EQUATIONS WITH APPLICATIONS



HOW DO WE STUDY FUNCTIONS WHEN WE ONLY KNOW THEIR DERIVATIVES?

DID YOU KNOW? Differential equations are used to study drug delivery, disease epidemics, chaos, electrical circuits, spacecraft navigation, supply & demand, and much more!

COURSE TOPICS: This focuses on using a combination of numerical/computational, geometric, and analytic methods to study various types of differential equations (linear vs. nonlinear; first-order vs. higher-order) and systems of equations. Various applications—especially in physics, biology, and economics—will also be explored.

Co-requisite: Math B201 (multivariable calculus), B203 (linear algebra), or instructor permission.
Contact donnay@brynmawr.edu for more information.