Mathematical Modeling of the Human Environment: Air quality, floods, and epidemics

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008 Kemeny, 1:00PM
Tea at 3:30 pm in 300 Kemeny

Abstract

In this talk, I will discuss mathematical problems and open challenges that arise when we use mathematical models to simulate the impact of human activities on the environment as well as the effects of environmental changes and events on humans. Specifically, I will discuss how we model the chemical composition of the atmosphere (global scale), flooding events in vegetated areas, and the relationship between epidemics and climate. I will focus on keeping the technical details to a minimum in order to engage the (potentially broad) audience.

This talk should be accessible to .