



Colloquium

Wednesday April 8, 3:00 p.m. (8th Period)

In the Atrium
Refreshments provided.

Speaker: Hemaho Taboe

Title: Mechanistic Models of Infectious Disease: Simple and Complex Processes Requiring Interdisciplinary Attention

Abstract

Mathematical models are powerful tools for forecasting the progression of infectious diseases, whether interventions are applied or not. Epidemic model focuses on formulating systems of differential equations that capture the intricate biological mechanisms driving disease dynamics. At first glance, the task may seem straightforward, but truly robust models demand a blend of mathematical rigor and domain expertise. During this talk, I will present some results on environmentally transmissible diseases such as Lassa fever. I will also present a problem that is relevant whether one studies pure or applied algebra, topology, or analysis.

Note: Your next scientific breakthrough could begin here, see you at the talk.