

TEMPLE

MATH CLUB

Ergodic Theory: How to Measure an Environment— **Alvyn Wiratama**

WHEN

October 3 2024

5-6 PM

WHERE

Wachman Hall 617

Ergodic theory is a framework that aims to solve statistical problems and problems in dynamical systems. It was developed out of measure theory, spectral theory, and probability theory. The language of ergodic theory is written on transformations, measures, and metric spaces to base its properties on. What most motivated the development of ergodic theory is statistical mechanics, the study of physics of many particle systems classically and in quantum. This presentation aims to build up ergodic theory from the ground up, building all of the mathematical concepts that will be needed, leading up to the formulations of statistical mechanics.

**JOIN OUR
DISCORD:**

[https://discord.
gg/epRfvAXs](https://discord.gg/epRfvAXs)

OWL CONNECT:

[https://temple.campuslab
s.com/engage/organizati
on/temple_university_m
ath_club](https://temple.campuslabs.com/engage/organization/temple_university_math_club)

