

# TEMPLE

## MATH CLUB

### Vector Bundles: A Look at the Geometrical Anatomy of Theoretical Physics

#### WHEN

September 5, 2024  
5-6 PM

#### WHERE

Wachman Hall 617

Vector Bundles is a main object of study in Geometry, Topology, and Theoretical Physics. In short, Vector Bundles make sense of what happens when a Vector Space “twists” around a smooth “surface.” Statements like “it is impossible to comb a hairy ball completely flat” find their natural home in the language of Vector Bundles. This talk aims to explain what a Vector Bundle is, how it allows a deeper understanding of the geometric structure of a space itself, and how they naturally pop up in nature.

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