



Topology Seminar at Texas State

When: 11:00-12:20, Friday, May 1, 2020

Zoom info: <https://txstate.zoom.us/j/220521333>

Meeting ID: 220 521 333

Speaker: **Audrianna Pohlman(Texas State)**

Topic: *Computation of K_0 for PIDs*

ABSTRACT

K-theory was invented in the late 1950s by Alexander Grothendieck. Recently, mathematicians such as Inna Zakharevich have been using K-theory to help understand scissors congruence in higher dimensions. In this talk, we cover a series of talks given by Audrianna Pohlman in Topics of Topology with Dr. Hiro Tanaka. We define the Grothendieck group along with its universal property and explicit function. Using this information, we give two definitions of K_0 of a ring. We complete the presentation by computing K_0 of any Principal Ideal Domain.