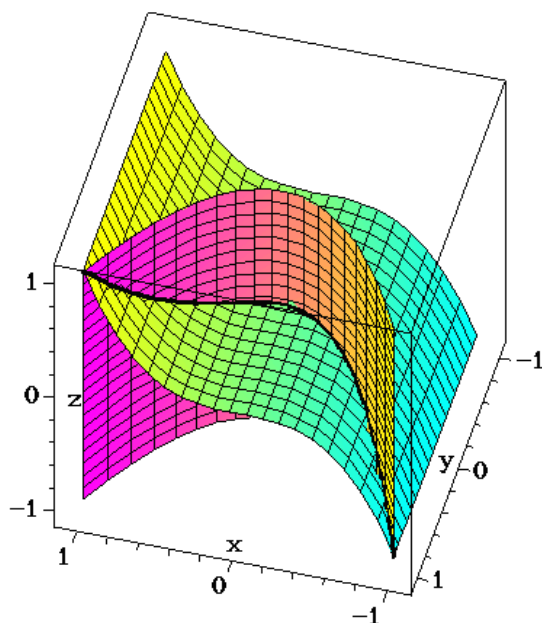# What are the Weil Conjectures?

Undergraduate Math Club
CORNELL UNIVERSITY

SPEAKER

Jessie Tan

ABSTRACT

The Weil Conjectures are four statements about an analogue of the Zeta function over finite fields. I'm going to talk about the roots of polynomial equations in a "mod p" setting, define the zeta function for a projective variety, and with the new vocabulary I'll state the Weil Conjectures at the end. Familiarity of finite fields and projective geometry is useful but not required.

NOV 12 at 5:15pm

Malott 532 ⋆ Refreshments