"Where'd you get the coconuts? Found them? In Mercia? The coconut's tropical! Well, this is a temperate zone."

— 1st soldier with a keen interest in birds

The Trivial Notions Seminar
Proudly Announces

Tropical Riemann-Roch

A talk by

Nathan Pfluege

Abstract

Tropical varieties are combinatorial objects defined in terms of piecewise linear maps, which are analogous in many ways to algebraic varieties. In particular, tropical curves are graphs with specified edge lengths, whose rational functions are piecewise linear functions with integer slopes. We will illustrate the analogy between tropical and algebraic curves by proving that tropical curves satisfy the Riemann-Roch formula. We will comment on how tropical theorems sometimes imply their algebraic counterparts, as in a recent proof of the Brill-Noether theorem.

Thursday March 10$^{\text{th}}$, at 2:00 pm
Science Center 507