

Department of Mathematics, BGU

Algebraic Geometry and Number Theory

On Wednesday, March ,25 2015

At 15:00 – 16:30

In Math 101-

Hannah Markwig (Universität des Saarlandes)

will talk about

Repairing tropicalizations of plane curves with modifications

Abstract: In tropical geometry, algebraic varieties are degenerated to polyhedral complexes, so-called tropical varieties. The fact that a tropical variety still reflects many properties of the degenerated variety allows an infusion of polyhedral and combinatorial methods into algebraic geometry. Tropical geometry is sensitive to embeddings of algebraic varieties inside toric varieties. In this talk, we present tropical modifications as a tool to locally repair bad embeddings of plane curves, allowing the re-embedded tropical curve to better reflect the geometry of the input curve. Joint work with Angelica Cueto.

Please Note the Unusual Time!