

ALGEBRA
SEMINAR

Signed tropicalization of semialgebraic sets

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Abstract: Tropicalization of algebraic varieties has been proven to be a powerful tool in complex, real and arithmetic geometry. Different methods to tropicalize are shown to be equivalent by the tropical fundamental theorem. I will explain this theorem and report on joint work in progress with Claus Scheiderer and Josephine Yu. In this work we generalize the fundamental theorem to so call "signed tropicalizations" of semialgebraic sets and define the signed non-archimedean analytification of a semialgebraic set.

Tuesday, September 18, 2018, 4:00 pm
Mathematics and Science Center: W301

MATHEMATICS
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