

## Graduate Number Theory Seminar

### *Height Functions*

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**Abstract:** Fundamental to the proofs of several important results in arithmetic geometry (e.g. the Mordell-Weil Theorem and Faltings' Theorem) is a way of assigning a size to points on a variety. Weil's height machine turns geometric properties of the variety into arithmetic information about the points on the variety. If time permits, we will discuss the conjectures of Batyrev and Manin on the distribution of rational points.

Thursday, April 24 at 3:00 PM in SEO 512