

*Student
Seminar*

Pi Mu Epsilon

& GAMECOCK MATH CLUB

The rank of an Elliptic Curve

by Zev Klagsbrun, Research Staff
Member at the Institute for Defense
Analyses - Center for Communications
Research



In this talk, we will introduce the concept of an elliptic curve and its associated Mordell-Weil rank. Prior to giving the technical portion of this talk, Dr. Klagsbrun will give a short 10-15 minute description of CCR-La Jolla (his employer), an explanation of the work they do, and what it's like to work there. His plan is for this first part to be a slide talk and for the part about elliptic curves to be a chalk talk. He will answer questions about either CCR-L or about elliptic curves.

Bio: Zev Klagsbrun is a research staff member at the Institute for Defense Analyses - Center for Communications Research, La Jolla in San Diego, California. Zev received his Ph.D. in mathematics from the University of California - Irvine in 2011, where he studied elliptic curves under the direction of Prof. Karl Rubin. Upon graduating, Zev took a two-year postdoctoral position at the University of Wisconsin - Madison before moving to IDA/CCR-L in 2013. More recently, Zev and Noam Elkies discovered an elliptic curve having Mordell-Weil rank 29, which set a new rank record for elliptic curves defined over the rational numbers.

Wednesday 5th February 2025 at 6pm
LeConte 107

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