

# Convex Algebraic Geometry

Second Kemeny Lecture

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008 Kemeny Hall, 4:00 pm  
(Tea 3:30 pm 300 Kemeny Hall)

## **Abstract**

This lecture concerns convex bodies with an interesting algebraic structure. A primary focus lies on the geometry of semidefinite optimization. Starting with elementary questions about ellipses in the plane, we move on to discuss the geometry of spectrahedra, orbitopes, and convex hulls of real varieties.

This talk should be accessible to graduate students