

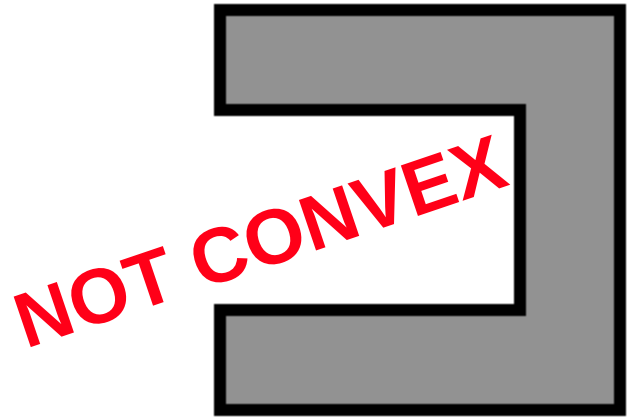
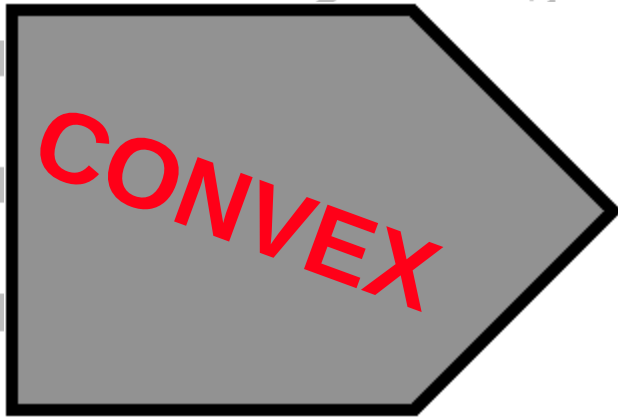


HUMBOLDT STATE UNIVERSITY

DEPARTMENT OF MATHEMATICS

Spring 2019 Colloquium Series

Points, Polytopes and Polynomials



A lattice polytope is the convex hull of finitely many points in the integer lattice. The number of lattice points in positive integer dilates of a lattice polytope is given by a polynomial --- the Ehrhart polynomial of the polytope. Ehrhart polynomials appear in a variety of different areas such as commutative algebra, representation theory and optimization and encode fundamental properties of the polytope such as the volume and the dimension. In this talk I will introduce the basic concepts of Ehrhart theory with a focus on lattice polygons in the plane and highlight open research questions. No prior knowledge of Ehrhart theory will be required.

Katharina Jochemko

Microsoft Research Fellow,
Simons Institute for the Theory of Computing

Thursday, April 4, 2019

BSS Room 166, 4:00 PM

To view this poster online, go to <http://www.humboldt.edu/math/news-and-events/math-colloquium>

We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS building at 3:30 pm on Thursday.