ANTONIO TORRES HERNANDEZ, UC Davis

Counting Vertices on Hyperplane Slices of Polytopes

The study of slicing convex sets, especially polytopes, has been an active area of research in geometry and combinatorics, inspiring numerous investigations. In this talk, we will focus on the number of vertices in slices of polytopes. We will define the sequences of slices for a polytope and analyze the gaps within these sequences, providing new insights into their structure and properties.