

Brownsville Seminar

UTRGV
School of Mathematical
& Statistical Sciences

On spheres with k points inside

Speaker: Dr. Alexey Garber

Abstract: A classical result of Delone claims that for a finite and generic point set A in \mathbb{R}^d , every generic point in the convex hull of A belongs to exactly one simplex with empty circumsphere. The collection of all these simplices is called the Delaunay triangulation of A . In the talk I will discuss a generalization of Delaunay's result to the case of simplices with k points inside their circumspheres. I will also talk about other possible settings for the problems and an application to bounds for k -sets, a classical topic in computational geometry.

Date: Friday, September 20

Talk Time: 2:00PM-3:00PM

Where: BLHSB 1.316 and in
Zoom

<https://utrgv.zoom.us/j/853333215080>

Coffee and
cookies will
be provided



For further information or for special accommodations, please contact Dr. Alexey Glazyrin via email alexey.glazyrin@utrgv.edu. More information about the seminar talks is available at the website <https://www.utrgv.edu/math/news-events/seminars/brownsville/index.htm>.