

A new perspective on taxicab conic sections

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Abstract

We explore taxicab conic sections from the perspective of slicing taxicab cones by planes, as opposed to the more well-studied approach from the perspective of distance formulations. After establishing some structural framework, a complete characterization of the resulting taxicab conic sections is established, and a number of special cases are explored.

Keywords: Taxicab geometry, Conic Sections

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Nov pogled na stožčeve preseke v geometriji taksijev

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Povzetek

Raziskujemo stožčeve preseke v geometriji taksijev, pri čemer stožce sekamo z ravninami, v nasprotju z bolj raziskanim pristopom, pri katerem so stožnice definirane s pomočjo razdalj. Po določitvi strukturnih okvirjev podamo popolno karakterizacijo ustreznih stožčevih presekov v geometriji taksijev in raziščemo številne posebne primere.

Ključne besede: Geometrija taksijev, stožčevi preseki.

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