



Technische Universität Wien
Institut für Diskrete Mathematik und Geometrie

Einladung

zu einem

Vortrag

von

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Title: Hermite interpolation by hypocycloids and epicycloids with rational offsets

Abstract:

Hypo/epicycloids (shortly HE-cycloids) are well-known curves, in detail studied in classical geometry. Hence, one may wonder what new can be said about these traditional geometric objects. It has been proved recently that all rational HE-cycloids are curves with rational offsets, i.e., they belong to the class of rational Pythagorean hodograph curves. In this talk, we present an algorithm for G^1 Hermite interpolation with hypo/epicycloidal arcs which results from their support function representation. We prove that for all regular data, there is a unique interpolating hypocycloidal or epicycloidal arc of the given canonical type.

Zeit: Mittwoch, 12.5.2010, 16.00 Uhr

Ort: Dissertantenraum des Instituts für Geometrie
Wiedner Hauptstraße 8-10, 8. Stock, Turm A (grün)

H.Stachel