Institut f. Geometrie

Vortrag

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Seminarraum 2, Kopernikusgasse 24/4

Geometric Curve Subdivision

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While linear subdivision schemes for curves and surfaces are well-understood by now, we still have but a few tools for analyzing the non-linear setting, although non-linear schemes often yield better results than their linear counterparts. In this talk we discuss a geometric condition which guarantees that a nonlinear interpolating subdivision scheme produces tangent continuous limit curves. As an example, we present two non-linear variants of the classical 4-point scheme which satisfy this condition. We further demonstrate some ideas for generating limit curves with higher orders of smoothness.

Johannes Wallner