

Title: Extending tangent surface decoupling: a model for higher dimensional zero curvature surfaces

Abstract: In previous work, we established the ϵ -decoupling inequality for tangent developable surfaces relying upon pioneering work by Bourgain and Demeter for the parabola. Here we reformulate that proof in a language that extends naturally to the full higher dimensional setting. The success of this endeavor crucially depends on a novel iterative decoupling scheme developed in recent work.