SOME CONFIGURATION RESULTS FOR AREA-MINIMIZING CONES

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Venue: Room 102, SCMS

Abstract:

Blowups at interior of area-minimizing currents give area-minimizing cones, so to search for area-minimizing cones is an important subject in geometric measure theory. Recently, we discovered very general configuration result. In particular, given any closed minimal submanifold in some Euclidean sphere, every cone over the minimal products of sufficiently many copies of the submanifold turns out to be area-minimizing. As a corollary, regular area-minimizing cones in Euclidean spaces and closed minimal submanifolds in Euclidean spheres share the same cardinality.