TWO CHARACTERIZATIONS OF EMBEDDED MINIMAL HELICOIDS AND TOTALLY GEODESIC HYPERSURFACES ON SPACE-FORMS

ANDREA BISTERZO

This talk aims to present two characterizations of embedded minimal helicoids and totally geodesic hypersurfaces in three-dimensional space-forms. The first involves the notion of "constant boundary temperature", an overdetermined condition for the Cauchy heat equation; the second is based on what we refer to as the "divergence condition", a geometric PDE involving the curvatures of these surfaces. This talk is based on a joint work with Alessandro Savo.