ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ

ΤΜΗΜΑ ΜΑΘΗΜΑΤΙΚΩΝ

Εβδομαδιαίο Σεμινάριο

On a spherical Bernstein theorem by B. Solomon

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Joint work with Jürgen Jost: A result of B. Solomon "*On the Gauss map of an area-minimizing hypersurface, Journal of Differential Geometry,* ***19****, 221-232 (1984)*" says that a compact minimal hypersurface M^k of the sphere $\mathbb{S}^{k+1}$ with $H_1(M) = 0$, whose Gauss map omits a neighborhood of an $\mathbb{S}^{k-1}$ equator, is totally geodesic in $\mathbb{S}^{k+1}$. In this talk, I will present a new proof strategy for Solomon's theorem which allows us to obtain analogous results for higher codimensions. If time permits, we sketch the proof for codimension 2 compact minimal submanifolds of $\mathbb{S}^{k+1}$.

Τετάρτη 27 Ιανουαρίου 2021, 18:00

Η ομιλία θα γίνει μέσω της πλατφόρμας MSTEAMS