MIN-MAX MINIMAL HYPERSURFACES: WIDTH AND MULTIPLICITY

Online seminar

Speaker: Zhichao Wang
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Abstract: Recently, Marques-Neves developed min-max theory and established a Morse theory for the area functional. Now we have very well understanding of the index and multiplicity for bumpy metrics by the work of Marques-Neves and X. Zhou. In the first part of this talk, we present upper bounds for min-max widths that depend only on the volume, dimension and a conformal invariant; in the second part, we exhibit the first examples of non-bumpy metrics in which the two-parameter min-max construction must have multiplicity-two. The second part is a joint work with X. Zhou.