VIRTUAL EAST-WEST SCV SEMINAR

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Min RU

University of Houston

VALUE DISTRIBUTION PROPERTIES FOR THE GAUSS MAPS OF THE IMMERSED MINIMAL AND HARMONIC SURFACES

In this talk, I'll discuss how to use the techniques in complex analysis (in particular the theory of holomorphic curves) to study the value distribution properties for the Gauss maps of the immersed minimal and harmonic surfaces. The project indeed was initiated by S. S. Chern and R. Osserman in 1960s. I'll give an overview of the known results, as well as to discuss some most recent results joint with Xingdi Chen and Zhixue Liu on the value distribution properties for the Gauss maps of some immersed harmonic surfaces.