



北京理工大学

数学与统计学院学术报告

Critical Allard regularity in dimension two and its application

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摘要: The classical Allard regularity says, a rectifiable varifold in the unit ball of the Euclidean space passing through the origin with volume density close to 1 and generalized mean curvature small in L^p for some super-critical $p > n$ must be a $C^{1, \alpha=1-n/p}$ graph with estimate. In this presentation, we discuss the critical case $p = n = 2$ in two dimensional case. We get the bi-Lipschitz regularity and apply it to analysis the bi-Lipschitz rigidity for L^2 almost CMC surfaces in R^3 . This is based on joint works with Dr. Yuchen Bi.