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中国科学院数学与系统科学研究院

Academy of Mathematics and Systems Science
Chinese Academy of Sciences

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Academy of Mathematics and Systems Science, CAS
Colloquia & Seminars

Speaker: 周杰, 首都师范大学

Inviter: 王哲辉博士后

Title: Introduction to Allard's regularity theorem (I)

Language: Chinese

Time & Venue: 2023.05.08 14:00-15:00 腾讯会议: 506-185-126 密码: 0428

Abstract:

In this short seminar, we will discuss the proof of the Allard regularity theorem, which is an ϵ -regularity theorem for the mean curvature equation in the Geometric Measure Theory(GMT) setting. Roughly speaking, it says if the generalized mean curvature of a rectifiable n -varifold belongs to L^p for some supercritical index $p > n$ and the density is not less than one for any point on the support set, then at a point on the support set with mass ratio close to one, there is a neighborhood on which the support of the varifold can be written as a $C^{1,\alpha}$ graph for $\alpha = 1 - \frac{1}{p}$. In the first presentation, we will discuss some intuitions and then focus on the Lipschitz approximation theorem.

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电话: 86-10-82541777 传真: 86-10-82541972 Email: contact@amss.ac.cn
地址: 北京市海淀区中关村东路55号 邮政编码: 100190

