Recent results on bubbling analysis for approximate Harmonic maps and H-surfaces.

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摘要： Compactness type results are crucial in the exploration of variational problems in both geometry and physics, as they provide a thorough understanding of the solutions' behavior and the spaces they inhabit. A captivating example of this is the examination of the asymptotic behavior for sequences of approximate harmonic maps. Such object extends to a more general context, that is, for approximate surfaces with prescribed mean curvature type vector field, which are also called H-surfaces for simplicity. In this talk, we will discuss some recent progresses on the asymptotic and qualitative behavior of these entities.

个人简介： 高瑞，上海交通大学博士生，导师为朱苗苗教授，主要研究方向是二维具有共形不变性的几何变分问题，特别是二维调和映射和具有预定平均曲率曲面的紧性和存在性相关问题。目前有一相关成果被Proc. Amer. Math. Soc.期刊接收。