

On the non-uniqueness of locally minimizing clusters via singular cones

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The classical double bubble theorem characterizes area minimizing partitions of Euclidean space into three chambers, two of which have prescribed finite volume. In this talk we will discuss a variant of the double bubble theorem in which two of the chambers have infinite volume. Unlike the double bubble theorem, the characterization of minimizers may depend on dimension due to the possibly singular large-scale geometry of such objects.

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