

# MIMS現象数理カフェセミナー

日時：2022年3月17日(木) (13:30 – 14:10)

場所：今年度はZoomでのリモート開催となります

## A regularity of a mean curvature flow

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**Abstract** : A family of hypersurfaces is called a mean curvature flow (MCF) if the velocity is equal to the mean curvature vector of the surface. In general, the family of surfaces moving by MCF may develop some singularity in finite time. A Brakke flow is one of generalized formulations of MCF to extend the flow past singularities. It is known that a Brakke flow is a classical solution if the flow satisfies an assumption called the unit density hypothesis. In this talk, we consider a smoothness of a Brakke flow of MCF with a given transport term in the case that the flow satisfies the unit density hypothesis.



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