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Title: Attaining a classical solution for a fragmentation model with a transport operator

Abstract:

Fragmentation is a process to collapse or to break something into smaller pieces. In biology, it is a process in which the body of the organism gets cut into smaller pieces. In data, it occurs when a collection of data in memory is broken up into many pieces that are not close together which results into slow computer performance. In this talk our model of interest is called fragmentation model with the transport operator. This can be expressed as an integro-differential equation. It is not easy to solve such an equation; however, in this talk we will present necessary results which enable us to solve this equation. Weighted measure spaces and their relevance will also be discussed.