Seminario de análisis matemático y aplicaciones Analisi matematikoa eta aplikazioak mintegia

A limit case for the fragmentation and growth-fragmentation equation

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ABSTRACT: the long-time asymptotics of the fragmentation and growthfragmentation equations have been studied by many authors, proving convergence toward a steady behaviour under balance assumptions on the coefficients. Exponential speed of convergence has also been established under more restrictive assumptions. We focus here on a limit case where no such behaviour is possible, since the usual balance assumptions are not satisfied. We show that a specific dynamics emerge, where the initial condition continues to play a major role in the asymptotic profile. We also link our results with probabilistic results obtained by J. Bertoin and B. Haas.

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