

A study of the non-autonomous fragmentation equation with mass loss

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The non-autonomous fragmentation equation with mass loss is considered. All the coefficients are supposed to be time dependent. It is shown that the results of the paper "Non-autonomous honesty theory in abstract state spaces with applications to linear kinetic equations" by Arlotti, Lods, Mokhtar-Kharroubi (Comm. Pure Appl. Anal., 2014) can be applied to this equation. This allows to investigate the initial-value-problem using the evolution semigroups. The conditions for the honesty are also established.