



MATHEMATICAL ANALYSIS OF CYCLE LENGTH-AGE STRUCTURED CELL POPULATION WITH AGGREGATE TRANSITION RULE: WELL-POSEDNESS

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Abstract. In this work, we analyze a mathematical model of a structured cell population. Each cell is distinguished by its cycle length and by its age. The daughter cells are correlated to the whole cell population thanks to the *Aggregate Transition Rule*. We prove then that this mathematical model is governed by a C_0 -semigroup and we investigate some of its properties.

Communicated by Nobuyuki Kenmochi; Received 5 February, 2021

This work is supported by LMCM-RSA.

Key words : Partial Differential Equations, Semigroup of Linear Operators, Asymptotic Behavior, Structured Cell Populations

AMS Subject Classification : 45K05, 47D06, 92C17