



MATHEMATICAL ANALYSIS OF CYCLE LENGTH-AGE STRUCTURED CELL POPULATION WITH AGGREGATE TRANSITION RULE: ASYNCHRONOUS GROWTH PROPERTY

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Abstract. This work is a continuation of [1] in which we have analyzed 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 investigate then the asymptotic behavior of the generated semigroup which allows us to get the *Asynchronous Growth Property* of the whole cell population.

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