



Sandomierz, 5th–9th September 2016

LOGISTIC GROWTH AT THE INDIVIDUAL LEVEL

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ABSTRACT

I am going to present the apology of very simple model of growth, namely the *logistic equation*. It agrees perfectly with many experimental data (on the *macroscopic* level) more than other, sophisticated, models. I am going to propose the appropriate models at *microscopic* level (i.e. the level of interacting individuals) and *mesoscopic* level (i.e. at the level of a statistical description of a test individual). I am going to discuss the asymptotic properties of these models e.g. the long–time behavior.

REFERENCES

- [1] J. Banasiak and M. Lachowicz: *Methods of small parameter in mathematical biology*, Birkhäuser, Boston, 2014.