

ON SOME CLASSES OF GROWTH FUNCTIONS  
AND THEIR LINKS TO THE REACTION  
NETWORK THEORY

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In this work we study some characteristics of sigmoidal growth functions that are solutions of the dynamical systems, [2]. In addition, the studied dynamical systems have realization in terms of reaction networks that are close to the Gompertzian and logistics type growth models. The studied reaction networks involve an additional species interpreted as an environmental resource. We are especially concerned with the comparison and monotonicity order-preservation of the sigmoidal solutions using the maximum principle in the spirit of [1].

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### REFERENCES

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