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**Study of two-nutr
model with pu**

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In this paper, a model of B
micro-organism competing f
and pulsed input of toxicant
theory and small amplitude p
micro-organism eradication p
At the same time, the condit
biological point of view, the
impulsive period, and contro
our results are illustrated by

Keywords: Chemostat; impul

Mathematics Subject Classifi

1. Introduction

A chemostat is a piece of ve
microbial population dynami
microbial species which are c

In order to identify the g
ents are added to samples tak
growth rate is measured. App
obtained when a combinatio
ent. Recently, there has beer
concerning growth of micro-o