

Presentation of Master's Project

The Effect of Killer Virus on Competition in *S. Cerevisiae* (Baker's Yeast)

By

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In today's society with the high demand for fuel, the emphasis on production of alternative fuels, such as ethanol, is growing. Yeast is used to produce ethanol in a chemostat environment. Both situations can be modeled with dynamical systems, but become interesting when we introduce the concept of infection. Like any other eukaryote, yeast is susceptible to certain viruses. In this presentation we will explore the effect of "Killer- K1" virus, and how different scenarios in a chemostat can end up. In addition, biological experiments were performed and the results of the data will be discussed.

April 23, 2007
4:10 pm in Math 311