

**ON THE MATHEMATICAL ANALYSIS OF EFFECTS OF
INBREEDING DEPRESSION ON A SIMPLE PREY-
PREDATOR COMMUNITY**

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ABSTRACT

This work is an analytic investigation of the combined effects of inbreeding depression and predation on simple, two species, and prey-predator communities. Whenever the phenomenon exists within a community, the resultant family of closed curves that are ordinarily egg-shaped (Pielou, 1969) will acquire small amplitudes and result into ellipse.

Keywords: Extinction, inbreeding depression, predation, analysis.