

**SPECIAL AMMENSAL MODEL WITH MONAD COEFFICIENT -  
A LOGICAL STUDY**

**K. V. L. N. Acharyulu, N. Phani Kumar\*, G. Srikanth  
and O. Nagaraju**

Department of Mathematics,  
Bapatla Engineering College, Bapatla,  
Bapatla - 522102, Andhra Pradesh, INDIA  
E-mail : kvlna@yahoo.com

\*Department of Basic Sciences and Humanities,  
Vignan Institute of Technology and Science,  
Yadadri-Bhuvanagiri, Telangana - 508284, Hyderabad, INDIA  
E-mail : nphanikumar20@gmail.com

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**Abstract:** The paper is intended to discuss about the influence of One of the Monad parameters(c) on the stability nature of Ecological Ammensalism based on the threshold results. This model is considered by a couple of first order non linear differential equations with influencing Monad parameters. The behavior of this model is observed with Phase plane analysis.

**Keywords and Phrases:** Ammensal species, Enemy Species, Equilibrium points, Stability and threshold diagrams.

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### **1. Introduction and Preliminaries**

Many real ecological models are examined with the concepts of Mathematical modeling to gain suitable existence solution in many complex cases. Initially ecological models were discussed by Lotka [11] and Volterra [14]. Many mathematicians Meyer [12], Cushing [6], Gause [8], Paul Colinvaux [13], Haberman [9], Freedman [7], Kapur [10] etc investigated various models and their stability. Later