

1067-92-710

**Abdul-Aziz Yakubu\*** (ayakubu@howard.edu), Department Of Mathematics, Howard University, Washington, DC 20059, and **Najat Ziyadi**, Morgan State University, Department of Mathematics, Baltimore, MD 21251. *Disease Dynamics and Allee effect in Discrete-time Population Models*. Preliminary report.

In human disease epidemics models, the timescale of the disease is short and host demography is often ignored. In this talk, we introduce a discrete-time model framework for studying fatal disease dynamics on a timescale that is not negligible in comparison with life expectancy. (Received September 13, 2010)