

國立交通大學應用數學系 學術演講公告

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講 題：Longtime Behavior of Solutions of a SIS Epidemiological Model

時 間：106 年 10 月 17 日(星期二) 下午 2:00 –3:00

地 點：(光復校區) 科學一館 223 室

茶 會：當天下午 1:30 (科學一館 205 室)

Abstract

We investigate the longtime behavior of solutions of an epidemiological model, proposed to explain an epidemiological phenomenon that pathogen spread does not necessarily keep pace with its host invasion. When the rate of transmission of disease is small, the infected population will vanish. When the rate is of moderate size, a local infection of disease will spread with a speed that is smaller than that of the host population. For large disease transmission rates, the infection can keep the pace with the host invasion, provided that the host does not propagate too fast. Our analysis can be used to study mono-stable scalar equations in inhomogeneous media.

敬請公告 歡迎參加

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