The Hong Kong Polytechnic University
Department of Applied Mathematics

Colloquium

Fitness based prey dispersal and prey persistence in intraguild predation systems

by

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Abstract

We establish prey persistence in intraguild persistence systems in bounded habitats under mild conditions when the prey disperses using its fitness as a surrogate for the balance between resource acquisition and predator avoidance. The model is realized as a quasilinear parabolic system where the dimension of the underlying spatial habitat is arbitrary.

Date : 19 May, 2016 (Thursday)
Time : 4:30p.m. – 5:30p.m.
Venue : TU717, The Hong Kong Polytechnic University

*** ALL ARE WELCOME ***