

RESEARCH TALK

College of Agriculture, Engineering and Science

School Mathematics, Statistics and Computer Science

cordially invites you to attend a talk entitled

Perron-Frobenius theory II

- population dynamics via positive and not so positive matrices

by

Professor Jacek Banasiak

School of Mathematics, Statistics and Computer Science, University of KwaZulu-Natal

DATE: 8 October 2015

TIME: 2.30 - 3.30 pm

VENUE: Science and Technology Education Centre, Building H1, Westville Campus

Abstract: Perron-Frobenius theory has been a basic tool in the analysis of long term behaviour of positive dynamical systems that mainly describe processes in population dynamics or economy. In this talk we describe two applications: one classical, describing the so-called Peter's principle. In the other we analyse a population model for a specific social structure of Natchez Indians, in which the transition matrix fails to be positive.

ENQUIRIES : Prof Bernardo Rodrigues on 031-260 2630 🔳 e-mail : Rodrigues@ukzn.ac.za

INSPIRING GREATNESS