

國立中央大學

統計研究所

學術演講

主 講 人：洪芷漪 教授（中山大學應用數學系）

講 題：An application of the coalescence problem to branching random walks with rapidly growing populations

時 間：105 年 05 月 17 日（星期二）上午 11：00 ~ 12：00

地 點：中央大學鴻經館 M605 室

茶 會：上午 10：30 ~ 11：00 地 點：鴻經館 510 室

ABSTRACT

A branching process is a stochastic model which describes the growth of a population. The theory of branching processes has a long history and has been applied to diverse fields as Biology, Epidemiology, Genetics, Medicine, Nuclear Physics, Demography, Actuarial and Financial Mathematics, Algorithm and Data Structures, etc.

In this talk, we will first introduce the coalescence problem in Galton-Watson branching processes which provides a new direction (backwards in time) to investigate the population and then consider the branching random walks by imposing movement structures to these processes. We will see what happens to the limit distribution of the positions of the particles in the branching random walks when the population is rapidly growing by means of the coalescence problem.

◎敬請張貼

歡迎參加◎