國立中山大學應用數學系
學術演講

講　　者：洪芷漪 教授
　　　　　國立中山大學應用數學系
講　　題：The coalescence problem in branching processes
時　　間：2017/03/09（星期四）14:10 ~ 15:00
地　　點：理學院四樓理 SC 4009-1 室
茶　　會：16:00 於理 SC 4010 室（系辦公室）

摘 要

When a population grows old, it is always interesting to know what happened to it in the past. The coalescence problem provides a way to understand the structure of the population and the ancestry of the individuals in it.

Here, we first consider a branching process, in which each individual lives a random length of time and, upon its death, produces a random numbers of children. We pick two individuals from those who are alive at the current time by simple random sampling without replacement and trace their lines of descent backward in time till they meet for the first time. We call the common ancestor of these chosen individuals at the coalescent time their most recent common ancestor. The coalescence problem is to investigate the limit behaviors of some characteristics of this most recent common ancestor such as its death time and its generation number. Moreover, we will also address the coalescence problem and some related questions for different kinds of branching processes as well as its applications.

中山大學應用數學系
敬 請 公 告！ 歡 迎 參 加！
應用數學系：http://math.nsysu.edu.tw
校園地圖：http://math.nsysu.edu.tw/ezfiles/87/1087/img/779/NSYSUMAPmath990705.jpg
交通資訊：http://www.nsysu.edu.tw/files/90-1000-7.php?Lang=zh-tw

應用數學系　　　　　校園地圖　　　　　交通資訊