

# 概率论系列报告 Probability Seminar

报告题目(Title): Interval partition evolutions and applications

报告人(Speaker): 石权 (CAS)

时间(Time): 2022/05/09 14:00-15:00

地点(Venue): Tencent meeting(109-958-669)

摘要(Abstract):

A composition of a positive integer  $n$  is a sequence of positive integers that sum to  $n$ . In this talk, I will introduce a family of interval-partition-valued diffusions that arise as limits of random walks on integer compositions. These infinite-dimensional diffusions have Poisson--Dirichlet (pseudo-)stationary distributions. Our model is closely related to Pitman--Dubins Chinese restaurant processes and random walks on integer partitions studied by Borodin--Olshanski and Petrov. I will also talk about some applications of our model in population genetics and continuum-tree-valued dynamics. This talk is based on joint work with Noah Forman, Douglas Rizzolo, and Matthias Winkel.

欢迎参加

Everyone is welcome.