

Date: 2021.3.11. 10:00-11:00 am (Beijing time).

Tencent meeting: 695 8685 5338

Speaker: Yanqi Qiu (AMSS)

Title: The random Patterson-Sullivan interpolation for harmonic functions in complex hyperbolic spaces

Abstract: We will talk about the Patterson-Sullivan interpolation for harmonic functions on complex hyperbolic spaces in the setting of random point processes. More precisely, we will discuss the reconstruction of harmonic functions in one dimension unit disk and pluriharmonic functions in higher dimension complex unit ball (considered as the hyperbolic spaces) from their evaluations in a random discrete subset. In joint work with Alexander Bufetov, a necessary and sufficient condition for a certain uniform law of large numbers and optimal reconstruction in the setting of weighted Bergman spaces are established.