



Analysis Seminar

Title: Choquet Theory of Lipschitz-free spaces

Speaker: Richard Smith

Date: Tue 4th February 2025 at 2:00PM

Location: E0.32 (beside Pi restaurant)

Abstract: This is a continuation of my talk 'A solution to the extreme point problem in Lipschitz-free spaces' that I gave last November. In that talk I presented some elements of what I call a 'Choquet Theory of Lipschitz-free spaces', which was a critical component of the solution to the extreme point problem. After a brief review of November's talk, I will present this Choquet theory in greater depth. It draws on the classical Choquet theory; the main difference being that in the classical case the 'maximal' measures are of interest, whereas in this theory the focus is on the 'minimal' measures. This is because the minimal measures are compatible with existing concepts from Lipschitz-free spaces and optimal transport theory, such as the supports of free space elements and optimal couplings of probability measures.

<https://ucd-ie.zoom.us/j/68209724036pwdjkdsFVbUsbXIMBdQfSqGG7vlsWCEhL.1>