



Analysis Seminar

Title: Orthogonally Additive Sums of Powers of Linear Functionals

Speaker: C. Boyd

Date: Tue 1st March 2022 at 3:00PM

Location: Seminar Room SCN 1.25

Abstract: An m -homogeneous polynomial P on a vector lattice is said to be orthogonally additive if $P(x+y) = P(x) + P(y)$ whenever x and y are disjoint. In this talk we will characterise when a sum of powers of linear functions, $\sum_{j=1}^k \varphi_j^m$, is orthogonally additive in terms of the lattice properties of the φ_j and relationship between k and m .

<https://ucd-ie.zoom.us/j/69066706410>

These results is part of joint work Ray Ryan and Nina Snigireva.

<https://ucd-ie.zoom.us/j/69066706410>