# 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 properites of the $\varphi_j$ 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.

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