# COLLOQUIUM DE ANÁLISIS MATEMÁTICO

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# Duality theories and factorisation for classes of multilinear operators

**Resumen:**

We discuss theories of duality relating to certain classes of multilinear or multilinear-like operators on Banach spaces and Banach lattices. These theories relate to pointwise factorisation of functions in certain function spaces and also to the Maurey--Nikishin--Stein theory of factorisation of operators. A variety of techniques is involved, including minimax arguments involving the dual space of $L^\infty$. Many open questions remain.

This is joint work, partly with Timo Hanninen and Stefan Valdimarsson, and partly with Michael Tang.

**Organizado por el Departamento de Análisis Matemático y Matemática Aplicada y el Instituto de Matemática Interdisciplinar (IMI)**

**Fecha: Jueves 2 de junio de 2022
a las 13:00 horas
Lugar: Aula 222
Facultad de CC Matemáticas, UCM**