



DEPARTAMENTO DE
ANÁLISIS MATEMÁTICO Y
MATEMÁTICA APLICADA



SEMINARIO DE ANÁLISIS MATEMÁTICO Y MATEMÁTICA APLICADA

Mingu Jung
Korea Institute for Advanced Study

Linearization and compactness

Linearizing non-linear functions is a typical procedure in infinite dimensional analysis. Originating nearly 70 years ago with Grothendieck, the practice of identifying spaces of continuous non-linear functions with spaces of continuous linear mappings defined on Banach spaces has proven to be a useful technique. Accordingly, the study of geometric and topological properties of these linearizing Banach spaces has increasingly attracted interest. In this talk, we briefly discuss the canonical linearization of holomorphic functions, Lipschitz functions, and related results on compactness of sets in certain Banach spaces.

Organized by: Departamento de Análisis Matemático y Matemática Aplicada and Instituto de Matemática Interdisciplinar (IMI)

Date: Tuesday, October 24 2023, 13:00h

Place: 222

Facultad de CC. Matemáticas, UCM