



DEPARTAMENTO DE
ANÁLISIS MATEMÁTICO Y
MATEMÁTICA APLICADA



SEMINARIO DE ANÁLISIS MATEMÁTICO Y MATEMÁTICA APLICADA

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The Liouville theorem for discrete nonlinear equations

Abstract:

The interest in harmonic functions on graphs goes back to the XIXth century, closely related to electrical networks and random walks. Discrete Potential Theory is nowadays an active, interdisciplinary field, with plenty of connections and applications to different areas of pure and applied mathematics.

As in the continuous case, the Liouville and Harnack properties are also fundamental tools in the discrete setting. After reviewing some background and known results, we will discuss a recent approach to the Liouville theorem for certain nonlinear equations on grids. (Joint work with T. Adamowicz).

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

Date: Thursday, november 2, 2023, 13:00h

Place: 222

Facultad de CC. Matemáticas, UCM