CONFERENCIA

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Runge approximation and unique continuation properties

Abstract: Holomorphic functions enjoy the following two well-known properties:
- if they vanish in a subset, they must be identically zero,
- they can be approximated by polynomials, under mild conditions on the set of analyticity.
Unique continuation and Runge-type approximation properties share this same flavour in the setting of solutions to more general partial differential equations.

In this talk I will review some of these dual properties for both local and nonlocal operators. I will also discuss some applications, including to the context of inverse problems.

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