

# OPERADORES DE SUPERPOSICIÓ EN ESPACIOS DE BANACH PONDERADOS DE TIPO $H^\infty$

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ABSTRACT. A superposition operator  $S_\phi$  whose symbol is a fixed entire function  $\phi$ , is obtained by composing  $\phi \circ f$  with different functions  $f$  in a given space of analytic functions. The basic question is as follows: when does an operator defined in this way maps a given space of analytic functions into another space of analytic functions? Other questions about such (typically non-linear) operators are: when are they continuous, map bounded sets into bounded sets or map bounded sets into relatively compact sets? The answers are usually formulated in terms of growth of the symbol. In this lecture we consider the case of weighted Banach spaces of analytic functions on the unit disc of the complex plane defined by means of sup-norms. Complete characterizations are obtained for polynomial, logarithmic and exponential weights.