



Pilar Rueda (Pilar.Rueda@uv.es) Depto. Análisis Matemático, Universidad de Valencia, 46100 Burjassot (Valencia), Spain, *Superposition operators on weighted spaces of holomorphic functions*.

ABSTRACT. Let ϕ be an entire function, and let X and Y be complex Banach spaces of scalar-valued holomorphic functions defined on an open subset U of \mathbb{C}^n . We say that ϕ induces a superposition operator from X into Y if $\phi \circ f$ belongs to Y for every $f \in X$. The aim of this talk is to show some results concerning superposition operators between weighted spaces of holomorphic functions. First, we give growth conditions on the symbol to ensure the existence and continuity of the superposition operator. We also get that continuity and holomorphy of superpositions operators between arbitrary X and Y are equivalent under a general condition. In particular, continuous superposition operators between weighted spaces of analytic functions are holomorphic. This is a joint work with C. Boyd.