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Dr. Moliner 50, 46100 Burjassot, Valencia, Spain. *Pietsch domination theorem and beyond.*

Pietsch domination theorem is a central and basic result in the theory of absolutely summing linear operators. Generalizations to multilinear mappings, polynomials or sub-homogeneous mappings use strongly the algebraic properties of the mappings involved and need to adapt Pietsch's linear argument to the new non-linear context at each time. In this work we give an abstract version of Pietsch's domination theorem which unify a number of known domination theorems for classes of linear and non-linear mappings. Actually, we show that the Pietsch-type domination does not depend really on any algebraic condition. This is a joint work with Geraldo Botelho and Daniel Pellegrino. (Received January 13, 2010)