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Título: Mixed-Norm Inequalities And Operator Space L_p Embedding Theory

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Sinopsis

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Let f_1, f_2, \dots, f_n be a family of independent copies of a given random variable f in a probability space $(\Omega, \mathcal{F}, \mu)$. Then, the following equivalence of norms holds whenever $1 \leq q \leq p < \infty$, $(\int_{\Omega} [\sum_{k=1}^n |f_k|^q]^{p/q} d\mu)^{1/p} \sim \max_{r \in \{p, q\}} \{n^{1/r} (\int_{\Omega} |f|^r d\mu)^{1/r}\}$. The authors prove a noncommutative analogue of this inequality for sums of free random variables over a given von Neumann subalgebra. This formulation leads to new classes of noncommutative function spaces which appear in quantum probability as square functions, conditioned square functions and maximal functions.

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