

Estelle Boffy: 20Positive and Contractive Projections on Schatten spaces

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A subspace of a Banach space E is said to be 1-complemented if it is the range of a contractive projection, and positively 1-complemented if the projection is, in addition, positive. In the commutative L_p spaces, the description of contractive projections is well known (see, e.g., Ando's Theorem, 1966). In 1992, Arazy and Friedman provided a characterization of the 1-complemented subspaces of $S^p(H)$, the noncommutative L_p space associated with $B(H)$, for $p \geq 2$. In this talk, I will focus on the positively 1-complemented subspaces of $S^p(H)$, and briefly on the case $p=3/2$.