

# Completely positive projections and dilations of semigroups

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We present a new result concerning complemented subspaces in non-commutative  $L_p$ -spaces. More precisely, we show that the ranges of completely positive contractive projections are isometric to non-commutative  $L_p$ -spaces. Moreover, we apply these results to dilations of semigroups of operators acting on non-commutative  $L_p$ -spaces.