MAN-DUEN CHOI, University of Toronto, Math Department, Toronto

The Stinespring Theorem revisited

The Stinespring Theorem is sort of standard result about the strucure of unital completely positive linear maps between C^* -algebras. Recently, the study of this theorem has appeared in different settings of non-commutative analysis. Even in the finite-dimensional cases, there are very hard problems of unknown depth in matrix analysis, related to quantum information.