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Partial isometries implementing cpc C^ - dynamical systems*

Associate with a completely positive contractive (cpc) map $\varphi : A \rightarrow A$ of a C^* -algebra A a crossed product algebra $C^*(A, \varphi)$; namely a universal C^* -algebra generated by A and a contraction implementing φ . One can dilate φ to a cpc map $\tilde{\varphi}$ of an augmented C^* -algebra A_q of A . The associated crossed product algebra $C^*(A_q, \tilde{\varphi})$ is generated by A_q and a partial isometry implementing $\tilde{\varphi}$, and is Morita equivalent to $C^*(A, \varphi)$.