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Bi-Free Entropy with Respect to a Completely Positive Map

Free entropy, as developed by Voiculescu in the 1990s, is an essential concept in free probability and is used to prove numerous results in operator algebras. The non-microstate version of free entropy, which is based on a conjugate variable system and a notion of free Fisher information, was generalized by Shlyakhtenko to incorporate a completely positive map. In this talk, we will examine this notion of free entropy with respect to a completely positive map, its applications, and its extension to the bi-free setting.