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Quantum Central Limit Theorems, Emergence of Classicality and Time-dependent Differential Entropy

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We derive some Quantum Central Limit Theorems for expectation values of coarse-grained observables, as functions of hermitean operators of non-commuting variables. These open some pathway for an emergence of classical behaviours. We also obtain some nontrivial time-dependent differential entropies.

Author: KIEU, Tien (Centre for Quantum Technology Theory and Optical Sciences Centre, Swinburne University of Technology, Victoria, Australia)

Presenter: KIEU, Tien (Centre for Quantum Technology Theory and Optical Sciences Centre, Swinburne University of Technology, Victoria, Australia)

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