

# Objective Wave Packet Reduction by the Observing Subject in the Self-Organized Criticality Model of Experience

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**Abstract.** In the complexity biology of optimized regulation, the existence of a gain  $g = 1$  condition at criticality means that systems under self-organized criticality are self-observing systems. Information states of such systems must have a system of loops attached to their information vector mixtures to which the property of self-observation can be equated with (1) the observing subject's sense of their own presence, (2) sense of the passage of time, and (3) sense of 'being'. Being instability states, the usual quantizable states of simple harmonic motion creating stability are no longer present, a fact that can be attributed to the process of self-observation. The self-observing process similarly annihilates all quanta impinging on the system, converting any observed information into non-quantizable excitations of the instability.

**Conclusion:** these models predict the objective reduction of wave packets by the experiencer. Instead of relying on gravitational non-linearities as Penrose proposes, they rely on those naturally occurring in mechanisms of control in complexity biology. They are natural and known to be present.