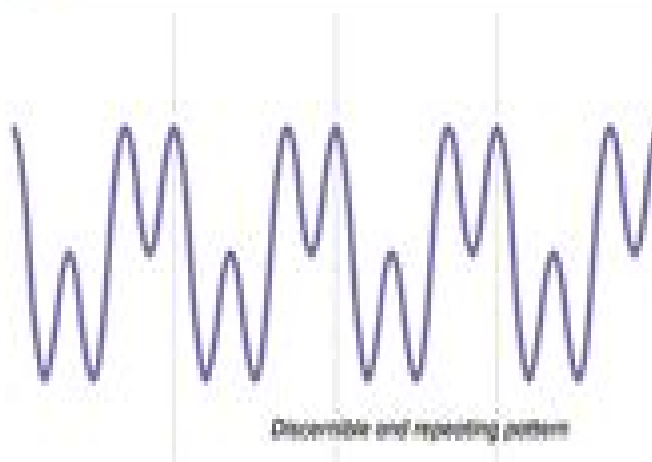


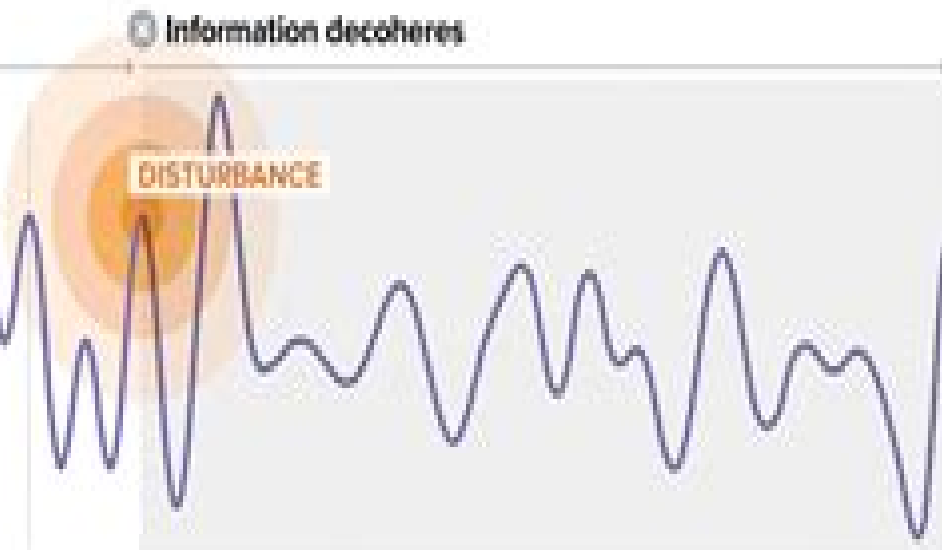
QUANTUM COHERENCE

Preserving coherence in quantum systems is crucial for quantum computing, communication, and sensing

Information is coherent



Information decoheres



Coherence is a measure of how well objects maintain their relationships with each other and how well the system's evolution can be predicted. The longer a system (represented mathematically as waves) remains coherent, the longer it has to process information. Coherence is fragile and hard to protect.

When a quantum object encounters environmental disturbances, the information stored in the coherent system is lost in a process called **decoherence**. Scientists are working to preserve coherence in quantum systems such as computers, networks, and sensors.

EXAMPLE DISTURBANCE FACTORS



Impurities in material



Particles



Electromagnetic waves



Mechanical vibrations



Temperature fluctuations

Coherence And Quantum Optics 6

DJ Losen



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