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the theory of "decoherence."

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to read) is contained in a  
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Zurek (1983) which has

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first edition of this book,  
the concept of de coherence  
was known only to a minority  
of physicists. In the  
meantime, a wealth of  
contributions has appeared  
in the literature -  
important ones as well as

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serious misunderstandings.

The phenomenon itself is now  
experimentally clearly  
established and  
theoretically well  
understood in principle.

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superselection rules, the border line between microscopic and macroscopic behavior, the emergence of classical spacetime, and the appearance of ...

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understood theoretically, as  
well as widely reported in  
the literature. The major  
consequences of decoherence  
are the emergence of  
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superselection rules, the  
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microscopic and macroscopic  
behavior in molecules and  
field theory, the emergence  
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Further along these lines,  
Zeh (2003b) argues that  
decoherence can explain the  
appearance of particle  
detections within quantum  
field theory (see the entry

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(on quantum field theory).

Therefore, only fields need to be included in the fundamental concepts, and 'particles' are a derived concept, unlike what might be suggested by the customary introduction of

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fields through a process of  
'second quantisation'.

**The Role of Decoherence in  
Quantum Mechanics (Stanford  
...)**

Decoherence does not claim  
to provide a mechanism for

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the actual wave-function collapse; rather it puts forth a reasonable mechanism for the appearance of wave-function collapse. The quantum nature of the system is simply "leaked" into the environment so that a total

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superposition of the wave function still exists, but exists - at least for all practical purposes [32] - beyond the realm of ...

**Quantum decoherence -  
Wikipedia**

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Joos, Erich, Zeh, H Dieter,  
Kiefer, Institute for  
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Giulini, Domenico ...

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Quantum Decoherence consists in the appearance of classical dynamics in the evolution of a quantum system. This paper focuses

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on the probabilistic  
interpretation of this  
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(April 2020) (Learn how and when to remove this template message) " Decoherence " is the sixth episode in the third season of the HBO science fiction dystopian thriller television series Westworld. The episode aired

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on April 19, 2020. It was  
written by Suzanne Wrubel  
and Lisa Joy, and directed  
by Jennifer Getzinger.

## **Decoherence (Westworld) - Wikipedia**

Quantum decoherence gives

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the appearance of wave  
function collapse (the  
reduction of the physical  
possibilities into a single  
possibility as seen by an  
observer) and justifies the  
framework and intuition of  
classical physics as an

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acceptable approximation:  
decoherence is the mechanism  
by which the classical limit  
emerges out of a quantum  
starting point and it  
determines the location of  
the quantum-classical  
boundary.

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