



# The Emergent Multiverse: Quantum Theory according to the Everett Interpretation

By David Wallace

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## The Emergent Multiverse: Quantum Theory according to the Everett Interpretation By David Wallace

The Emergent Multiverse presents a striking new account of the 'many worlds' approach to quantum theory. The point of science, it is generally accepted, is to tell us how the world works and what it is like. But quantum theory seems to fail to do this: taken literally as a theory of the world, it seems to make crazy claims: particles are in two places at once; cats are alive and dead at the same time. So physicists and philosophers have often been led either to give up on the idea that quantum theory describes reality, or to modify or augment the theory.

The Everett interpretation of quantum mechanics takes the apparent craziness seriously, and asks, 'what would it be like if particles really were in two places at once, if cats really were alive and dead at the same time'? The answer, it turns out, is that if the world were like that—if it were as quantum theory claims—it would be a world that, at the macroscopic level, was constantly branching into copies—hence the more sensationalist name for the Everett interpretation, the 'many worlds

theory'. But really, the interpretation is not sensationalist at all: it simply takes quantum theory seriously, literally, as a description of the world. Once dismissed as absurd, it is now accepted by many physicists as the best way to make coherent sense of quantum theory.

David Wallace offers a clear and up-to-date survey of work on the Everett interpretation in physics and in philosophy of science, and at the same time provides a self-contained and thoroughly modern account of it—an account which is accessible to readers who have previously studied quantum theory at undergraduate level, and which will shape the future direction of research by leading experts in the field.

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#### Review

"*The Emergent Multiverse* is the most extensive, careful, and wide-ranging discussion of Hugh Everett's so-called Many Worlds interpretation of quantum theory in existence (at least on our branch of the multiverse), and is certain to become the *locus classicus* for all future discussions of the theory.... You won't find a better discussion of both foundational issues and far-flung consequences of the theory anywhere."--Tim Maudlin, *Nous*

"As those who have read Wallace's articles will expect, [this] is an excellent book, and should be required reading for anyone interested in the foundations of quantum mechanics."--Peter J. Lewis, *Notre Dame Philosophical Reviews*

"This book is an outstanding achievement. It presents the current state of the art in the Everett interpretation to a depth and level of sophistication that will be appreciated by the leading experts in the foundations of quantum theory (of whom Wallace is one) -- and will educate them, and should chasten most of them."--David Deutsch, Centre for Quantum Computation, The Clarendon Laboratory, University of Oxford

#### About the Author

**David Wallace** was born in San Rafael, California, in 1976, but has been resident in the UK since 1977. He studied theoretical physics at Oxford University from 1994-2002, but upon realising his research interests lay mostly in conceptual and foundational aspects of physics, he moved across into philosophy of physics. For the last six years he has been Tutorial Fellow in Philosophy of Science at Balliol College, Oxford. He holds PhDs in physics and in philosophy, and his research interests span a wide range of issues on the boundary between philosophy and physics: symmetry and the gauge principle, the direction of time, the structure of quantum field theory, and of course the interpretation of quantum mechanics.

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