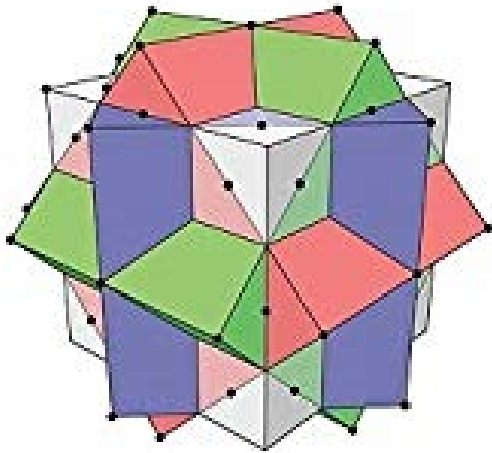


Deep Beauty: Understanding the Quantum World Through Mathematical Innovation



DEEP BEAUTY

UNDERSTANDING THE QUANTUM WORLD
THROUGH MATHEMATICAL INNOVATION
EDITED BY HANS HALVORSON

CAMBRIDGE

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No scientific theory has caused more puzzlement and confusion than quantum theory.

Physics is supposed to help us to understand the world, but quantum theory makes it seem a very strange place. This book is about how mathematical innovation can help us gain deeper insight into the structure of the physical world. Chapters by top researchers in the mathematical foundations of physics explore new ideas, especially novel mathematical concepts, at the cutting edge of future physics. These creative developments in mathematics may catalyze the advances that enable us to understand our current physical theories, especially quantum theory. The authors bring diverse perspectives, unified only by the attempt to introduce fresh concepts that will open up new vistas in our understanding of future physics.