

An Invitation to Quantum Mathematics

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Quantum Mathematics is the mathematical apparatus of quantum mechanics.

What is the essence of this mathematical ideology ?

We can say quantum mathematics emerges from the classical mathematics after replacing functions by operators. The outstanding role of functions in classical mathematics with the pointwise commutative multiplication is passed in quantum mathematics to operators with their non-commutative multiplication (composition).

The following 2 statements serve as a "guide to action":

- * Classical Mathematics deals exclusively with spaces of functions and its main structure is the uniform norm.
- * Quantum Mathematics deals with the spaces of operators and the main structure is the quantum norm.

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