M A T H E M A T I C A L P H Y S I C S S E M I N A R

Rutgers University
Hill Center - Room 705

One more time: Do we understand Quantum Mechanics?

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Abstract

I will attempt to describe an algebraic formalism general enough to describe all kinds of physical systems - classical AND quantum. I will clarify what the basic difference between classical and quantum-mechanical descriptions of physical systems is. I will then try to locate those features of quantum theory that we tend to find confusing and explain why we should not feel confused - quantum mechanics is a theory with a perfectly clear interpretation, (for all I understand about it). But, of course, its nature and interpretation differ substantially from those of classical theories.