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Quantum Theory: Reality, Contextuality and Locality

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Abstract content
   (Max 300 words)
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Despite the successes of quantum theory in the last 90 years, and the advances in its application in the atomic and subatomic domains in the last 20, there remains a remarkable diversity of opinion when it comes to the interpretation of a number of the foundational aspects of the theory.

This diversity adds to the intriguing nature of the subject, but complicates the task of lecturers who teach quantum mechanics at under- and postgraduate levels, as well as those scientists who remain uneasy about their grasp of the subject throughout their careers.

This talk will address some aspects of the conceptual problems to do with the hidden-variable theories and John Bell's papers on the subject.

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