



COLLOQUIUM
DEPARTAMENTO DE MATEMÁTICAS
UNIVERSIDAD CARLOS III DE MADRID

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The geometrical formulation of Quantum Mechanics

Abstract:

One of the outstanding problems of present theoretical physics is to find a natural way to combine quantum theory and general relativity. Even though we shall not address problems of quantum gravity, we will present a geometrical formulation of quantum mechanics which may provide insights on how to deal with nonlinearity within a theory which is primarily linear. The geometrical formulation unifies different pictures of quantum mechanics (Schroedinger, Heisenberg and von Neumann) and allows to identify mathematical structures which are dynamically determined with respect to those which are assumed already at a "kinematical" level.

Hora: 10:45

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