



GLOBAL ANALYSIS SEMINAR

Quantum mechanics and the hydrogen atom. II

Gerardo Mendoza

Temple University

Abstract: This is the second of two talks devoted to introducing some notions of quantum mechanics and an early model of the hydrogen atom (by N. Bohr). In the first talk I gave some historical background, introduced the Schrödinger equation, discuss the interpretation of its solutions, and described Bohr's model of the hydrogen atom.

In this second talk I intend to give the details of the solution of the Schrödinger equation as given by Schrödinger in 1926, leading to a complete calculation of the emission spectrum of the hydrogen atom (without relativistic and other effects)

The talks are intended for graduate students in mathematics at all levels and in any specialization.

Wednesday March 2, 1–1:50pm
Wachman Hall 617

<http://math.temple.edu/events/seminars/manifolds/>