



# GLOBAL ANALYSIS SEMINAR

## Quantum mechanics and the hydrogen atom. I

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**Abstract:** This is the first of two talks devoted to introduction some notions of quantum mechanics and an early model of the hydrogen atom (by N. Bohr). In the first talk I will give some historical background, introduce the Schrödinger equation, discuss the interpretation of its solutions, and describe Bohr's model.

In the 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.

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

Wednesday February 23, 1–1:50pm  
Wachman Hall 617

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