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Chemistry Fall 2015  
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December 14, 2015,  
Before 5 p.m.  
Problem 3: Bohr ' s

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model for the H atom still sees the electron “ orbiting ” on classical trajectories around the proton, it only restricts the possible radii.

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$V_0(R) = 0.34$ . In the electronic transition pictured below, the molecule starts in its ground vibrational level. The most probable vibrational quantum number of the excited state is (A) 1 (B) 2 (C) 3 (D) 4 (E) 5 (D) 5th level,  $v = 4$  35. Which of the following is a true statement about the

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◦ uorescence of a

PHYS401 Quantum  
Physics I - FINAL  
EXAM Spring 2012  
Quantum Physics  
PHYS2110/PHYS2040  
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2014 Final Exam;  
2010 Final Exam;  
2009 Final Exam;  
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PHYS401 Quantum  
Physics I - FINAL

EXAM Spring 2012 No  
books, calculators, or  
notes Name: \_\_\_\_\_ 1.

Consider an electron  
bound to a two-  
dimensional infinite  
quantum well with  
sides of length  $a$  and  $b$ .

a. Write down the  
time-independent

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differential wave  
equation governing  
the energy of

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Exams | Introductory Quantum Mechanics I | Chemistry | MIT ...  
Chemistry 461 builds on the introduction to quantum mechanics that was begun in Chemistry 260. Students will



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solve the

Schrödinger

equation in 1-, 2-, and

3-dimensions for

several problems of

interest in chemistry,

including the particle-

in-a-box, harmonic

oscillator, rigid rotor,

and hydrogen atom.

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December 17, 2004,  
7:30 a.m.- 9:30 a.m.

No other materials allowed. If you can't do one part of a problem, solve subsequent parts in terms of unknown answer clearly. If you don't know a formula, I might be able to help. All parts 10 pts., max=120.

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Physics I | Physics |  
MIT OpenCourseWare  
Quantum Chemistry  
and Spectroscopy  
Exam 1 Oct. 22, 2003  
Exams will be  
collected at 10:20:00  
am sharp ... We  
discussed in lecture  
that one practical use  
of quantum  
mechanical tunneling

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was in the operation of a scanning tunneling microscope (STM), which can be used to image ... If the wave function is not a solution to the time-independent ...

Quantum Mechanics  
C (130C) Winter 2013  
Final exam{ Solutions  
Sample Exams;

*Page 22/35*

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Sample Exam 1 and its answer key.

Answers to additional example problems for first exam

(questions found at end of Lecture 8).

Sample Exam 2 and its answer key.

Answers to example problems for second exam (questions found at end of Lecture 16). Also, the

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formula table that will be provided with the exam. Sample Exam 3 and its answer key.

Chem 332: Physical Chemistry II (Spring 2013)

Physics 324 -

Quantum Mechanics -

Fall 2001. Handouts:

First tutorial (Wave-particle duality):



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2, handout 3 (PDF)

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2-8 (PDF) Final class  
scores:

25%=homework,  
25%=1/2 of final,  
remaining 50% from  
best two of

Past Exams Database  
- UNSW

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Here are lots of quantum mechanics questions from previous exams that would be fair game this year: 5. (2 min)

What is a quantum-mechanical wave function a function of (i.e. what are its independent variables and how many are there)? 6. (4 min) List the

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conditions a wave  
function must satisfy  
in order to solve the  
Schrödinger  
equation. 7.

CHEMISTRY 461

FINAL EXAMINATION

JUNE 18 2001

Quantum Mechanics

C (130C) Winter 2013

Final exam{ Solutions

Monday March 18,

2013, 3-6pm Please

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remember to put your name on your exam booklet. This is a closed-book exam. There are 6 problems, each with several parts, of varying levels of difficulty; make sure you try all of the parts. None of the problems require very extensive calculation; if you find

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Exams from this year:

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have also been  
included.

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Chemistry Fall 2015

Quantum Mechanics

of Model Systems

(free particle, particle

in a box, particle on a

ring, simple harmonic

oscillator) Angular

Momentum



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(operators, spherical harmonics)

Vibrational and

Rotational

Spectroscopy of

Diatomic Molecules

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