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Exams from this year: QM Midterm

Exam Fa18 Equation Sheet Solutions QM

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Solutions Included here are previous  
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When available, solutions have also been



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included. Note that the content and ordering from previous years may not exactly match this year. Midterm:  
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Previous Exams | Introduction to  
Quantum Mechanics I / II ...

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PHY4604{Introduction to Quantum  
Mechanics Fall 2004 Final Exam  
SOLUTIONS 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  
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able to help. All parts 10 pts., max=120.  
Problem 1 required, attempt 2 of  
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PHY4604{Introduction to Quantum  
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Multiple Choice: Consider two quantum  
wavefunction solutions to the time-

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dependent Schrodinger equation for a particle,  $\psi_1(x, t)$ , and  $\psi_2(x, t)$ . We are given that both  $\psi_1(x, t)$  and  $\psi_2...$

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Quantum Mechanics (QM). Students take each topic as a separate 75-minute exam,

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selecting one of two presented written questions; their performance is evaluated separately for each section. Students may also meet any one of the topic requirements through classwork (for E&M, 8.311; for CM, 8.309; for SM, 8.333; and for QM, 8.321). Written Exams are administered and results are available

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about the Lambert W function), have a look at Ken Roberts and S ...

## Physics 215 Home Page

The course is intended for graduate students in physics who have already had an introductory course in Modern Physics and Quantum Mechanics, at the level of

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the texts: Introduction to Quantum Mechanics, by David J. Griffiths, Prentice-Hall, Inc. (1995); Quantum Physics: Atoms, Molecules, Solids, Nuclei and Particles, by Robert Eisberg and Robert Resnick.

Quantum Mechanics-I, KSU Physics 811

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Problem 1 (a) The given information tells

us that  $\mathbf{j} = c + jz + c j z$ , with  $j^2 = -1$

and  $j^3 = 1$ . We can use our

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global phase freedom to set  $c +$  to be real and positive (other choices are also possible),  $c + = q^2/3$  We are ...

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continuation of 221A in Fall 2004  
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Problem 1 (a) We are given the  $S_x$  basis  
representation, which tells us that the state  
is  $\frac{1}{\sqrt{5}}(|j=1, m=1\rangle + 2|j=1, m=0\rangle + |j=1, m=-1\rangle)$ . Graduate Quantum  
Mechanics – Midterm Exam - Solution

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(1)  $IJK, MN = -2O \quad PQR \sin PR \quad UV$   
 $WJRN \quad XR = 2OWV \quad PQR \quad Y \& ZPR$   
 $[V \quad XR = 2OWV \quad P \setminus] - R \quad P \cos PR \wedge V$   
 $[+Q \cos PR \quad P [V \quad XR] = 2OWV \quad P \setminus -$   
 $\quad P \cos P + a \sin PR \quad P \quad b \quad V [ = 2OWV \quad P$   
 $2 \quad 1 \quad P \sin PR - \cos P \quad 3 \quad X \quad c \quad X$   
 $= |IJK, MN| = 4O \quad W \quad V \quad f \quad P \quad 2 \quad 1 \quad P$   
 $\sin PR - \cos P \quad 3$  Question II (2) The optical

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theorem is a general law of wave scattering

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PC4130 Quantum Mechanics III

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PHYS401 Quantum Physics I - FINAL

EXAM Spring 2012 No books,

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Consider an electron bound to a two-dimensional infinite quantum well with sides of length  $a$  and  $b$ . a. Write down the time-independent differential wave equation governing the energy of this system. (1) b. Solve this equation for the stationary-state wavefunctions  $\psi_{n_x, n_y}$ , and determine all the allowed ...

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PHYS401 Quantum Physics I - FINAL  
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