

PHYS 521 Quantum Mechanics (I)

Syllabus

Objectives: To learn the fundamentals of quantum mechanics --- the basic postulates of QM, matrix and wave mechanics, spin and orbital angular momentum, time evolution, wavepacket, density operator, symmetry.

Course Credit: 3 semester hours

Meeting Times: Tuesday and Thursday, 1:00-2:15pm

Classroom: HBH 227

Format: A lecture course with weekly problem sets, a midterm exam and a final exam.

Textbook: Modern Quantum Mechanics (2nd Edition), J.J. Sakurai and J. Napolitano, Addison-Wesley, 2011.

Course web page: <https://owlspace-ccm.rice.edu/portal/site/PHYS-521-001-F14>

Course Instructor

Han Pu

Associate Professor, Department of Physics and Astronomy

Office: BRK 309

Phone: 713-348-3570

Email: hpu@rice.edu

Homework and Grades

I plan to assign a homework set each week, usually due at the beginning of class one week later. Homework sets will be distributed in class but they will also be available from the course web page.

Homework Policy: You are encouraged to discuss the homework problems with your PHYS 521 classmates and with the instructor and the graders, but you must write up your solutions *independently*. Of course, you must not copy from anyone else's solutions.

Late Policy: The grade for late homework will be multiplied by a decaying exponential with a time constant of five days. After 5 days, the homework will not be accepted and you will receive zero point for that homework set. Late homework must be delivered to the grader or the instructor for that problem set and the student must write "Late" and the date and time on the front page.

Grading Weights: Homework: 30%
Midterm Exam: 30%
Final Exam: 40%

Quantum Mechanics I Phys 4307 Syllabus

**Mo-lin Ge, Antti Niemi, Kok Khoo
Phua, Leon A Takhtajan**



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Advances in Chemical Physics, Volume 31 Ilya Prigogine, Stuart A. Rice, 2009-09-08 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics *Graduate Catalog* University of Texas--Pan American, 1975

Ludwig Faddeev Memorial Volume: A Life In Mathematical Physics Mo-lin Ge, Antti Niemi, Kok Khoo Phua, Leon A Takhtajan, 2018-05-21 Ludwig Faddeev is widely recognized as one of the titans of 20th century mathematical physics His fundamental contributions to scattering theory quantum gauge theories and the theory of classical and quantum completely integrable systems played a key role in shaping modern mathematical physics Ludwig Faddeev s major achievements include the solution of the three body problem in quantum mechanics the mathematical formulation of quantum gauge theories and corresponding Feynman rules Hamiltonian and algebraic methods in mathematical physics with applications to gauge theories with anomalies quantum systems with constraints and solitons the discovery of the algebraic structure of classical and quantum integrable systems and quantum groups and solitons with the topology of knots Faddeev s name is imprinted in many areas of mathematics and theoretical physics including Faddeev s equations and Faddeev s Green function in scattering theory Faddeev Popov ghosts and Faddeev Popov determinant in gauge theories Gardner Faddeev Zakharov bracket for the KdV equation Faddeev Zamolodchikov algebra in quantum integrable systems Faddeev Reshetikhin Takhtajan construction in the theory of quantum groups knotted solitons in the Skyrme Faddeev model and many others Ludwig Faddeev founded the St Petersburg school of modern mathematical physics and distinguished himself by serving the mathematics community for over three decades including his leadership of the International Mathematical Union in the period of 1986 1990 He was conferred numerous prizes and memberships of prestigious institutions in recognition of the importance of his work These include the Dannie Heineman Prize for Mathematical Physics the Dirac Medal the Max Planck Medal the Shaw Prize and the Lomonosov Gold Medal among others A gathering of contributions from some of the biggest names in mathematics and physics this volume serves as a tribute to this legendary figure Volume contributors include Fields medalist Sir Michael Atiyah J rg Fr hlich Roman Jackiw Vladimir Korepin Nikita Nekrasov Andr Neveu Alexander M Polyakov Samson Shatashvili Fedor Smirnov as well as Nobel laureates Frank Wilczek and C N Yang **Announcer** American Association of Physics Teachers, 2001 **Introdução à Teoria da Relatividade** Mario Goto, 2023-05-22 Introdu o Teoria da Relatividade apresenta as ideias filos oficas necess rias para a compreens o das propriedades do espa o e do tempo da Relatividade Newtoniana Relatividade Einsteiniana Retirada a centralidade do ser humano fica f cil aceitar que n o haja locais nem orienta es privilegiadas no universo Em termos matem ticos significa que o espa o deve ser uniforme homog neo e

isotrópica e as leis da física devem ser as mesmas em quaisquer referenciais inerciais ou não inerciais se considerar a Relatividade Geral. Isso permite por exemplo que tracemos a trajetória de uma viagem interplanetária com a certeza de que a nave chegue ao destino quer seja na lua em marte ou em qualquer outra localidade do espaço desde que a tecnologia permita. Já sabemos a composição química de objetos distantes como planetas e estrelas assim como a abundância relativa dos elementos químicos no espaço interestelar e intergaláctico. A beleza da ciência é a simplicidade das ideias iniciais por mim com resultados surpreendentes.

Nuclear Physics, 2003 **The Division of Particles and Fields of the American Physical Society**
 American Physical Society. Division of Particles and Fields. Meeting, 2001 **High Energy Physics Index**, 1986 *Physics Letters*, 1996 **Proceedings of the ... International Conference on High Energy Physics**, 2002 Announcement
 University of Michigan. College of Engineering, 1931 The Division of Particles and Fields of the American Physical Society (DPF 2000) American Physical Society. Division of Particles and Fields. Meeting, 2001 Mathematical Sciences After The Year 2000, Jan 99, Beirut Khalil Bitar, Ali Chamseddine, Wafic Ali Sabra, 2000-07-27 This volume contains articles by leading mathematicians and physicists in different directions such as geometry probability variational problems dynamical systems mathematical economics quantum field theory string theory and cosmology

60 Years Of Yang-mills Gauge Field Theories: C N Yang's Contributions To Physics Lars Brink, Kok Khoo Phua, 2016-04-21 During the last six decades Yang Mills theory has increasingly become the cornerstone of theoretical physics. It is seemingly the only fully consistent relativistic quantum many body theory in four space time dimensions. As such it is the underlying theoretical framework for the Standard Model of Particle Physics which has been shown to be the correct theory at the energies we now can measure. It has been investigated also from many other perspectives and many new and unexpected features have been uncovered from this theory. In recent decades apart from high energy physics the theory has been actively applied in other branches of physics such as statistical physics condensed matter physics nonlinear systems etc. This makes the theory an indispensable topic for all who are involved in physics. The conference celebrated the exceptional achievements using Yang Mills theory over the years but also many other truly remarkable contributions to different branches of physics from Prof C N Yang. This volume collects the invaluable talks by Prof C N Yang and the invited speakers reviewing these remarkable contributions and their importance for the future of physics.

Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009 Peterson's, 2007-11 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies. Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field. Book 4 contains more than 3 800 programs of study in 56 disciplines of the physical sciences mathematics agricultural sciences the environment and natural

resources *Magyar könyvészet* ,1981 Dissertation Abstracts International ,2007 *Energy & Nuclear Sciences*
International Who's who ,1992 **Summaries of Papers Presented at the Quantum Electronics and Laser Science**
Conference ,1997 **Nuclear Science Abstracts** ,1976

Reviewing **Quantum Mechanics I Phys 4307 Syllabus**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Quantum Mechanics I Phys 4307 Syllabus**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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