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UPDATED *March 29 2004*

NONLINEAR DYNAMICS: QUANTUM CHAOS

PHYS 7224	Spring semester 2004

Course schedule

www.cns.gatech.edu/PHYS-7224/syllabus.html

Course participants

www.cns.gatech.edu/PHYS-7224/emails

Project descriptions

ChaosBook.org/projects

Poster

www.cns.gatech.edu/PHYS-7224/post.html - *text version*

Related courses, software

ChaosBook.org/courses/OtherCourses.html
GNU Scientific Library - *FAQ*
Quantian - *The operating system for scientists*
A hitchhiker's guide to LaTeX - *The not so short introduction to LATEX2e* - *RevTeX4 APS article template* - *a sample BibTeX references file* - *optimize figure file size* - *APS style manual*

Questions

How is the course graded? *Dog ate my homework?* *Updating my project?* *How much programming needed?* *Should I submit my code along with the computational exercises?*

Next lecture

For people following the course, check the e-mail list. Please subscribe to the course e-mail distribution even if you are only interested in a subset of the topics - send e-mail with text (and no header):

> To: majordomo@cns.physics.gatech.edu
> Subject: <EMPTY>
> subscribe chaos_course

TEXT: ***Classical and Quantum Chaos*** webbook, available on ChaosBook.org
All chapter and exercise numbers refer to this book, unless stated otherwise.

PLACE AND TIMES:
Tue, Thu 09:35-10:55 in Howey S104

TEACHING ASSISTANT: Bo Li, gt3159a at prism.gatech.edu Howey W503, Phone: 404/384-9407

EXPERT GROUP: Rytis Paskauskas, Yueheng Lan, Mason Porter, Thomas Bartsch, Luz Vianey Vela-Arevalo, Slaven Peles

PROBLEM SETS: Please deliver solutions to problem sets by Thursday, at the lecture, or place them in Predrag's mailbox.

Lecture 1 *Thu Jan 8 2004*

Friday Jan 9: **Registration ends**

Lecture 2 *Tue Jan 13 2004*

Lecture 3 *Thu Jan 15 2004*

Monday Jan 19: **Martin Luther King day, no classes**

Lecture 4 *Tue Jan 20 2004*
solutions, problem set I

Lecture 5 *Thu Jan 22 2004*

Lecture 6 *Tue Jan 27 2004*

Lecture 7 *Thu Jan 29 2004*

Lecture 8 *Tue Feb 3 2004*
Problem sets II, III (chapter "Semiclassical evolution" exercises, version 10.1.7)

Lecture 9 *Thu Feb 5 2004*

Lecture 10 *Tue Feb 10 2004*

Lecture 11 *Thu Feb 12 2004*

Friday Feb 13: **last day to drop the course**

Lecture 12 *Tue Feb 17 2004*

Lecture 13 *Thu Feb 19 2004*
Problem set IV (chapter "Weak noise dynamics", boyscout edition 10.1.7)
LaTeX source files (some fiddling needed): noise.tex, refsNoise.tex; input also macros def.tex.
"Solution, problem set IV (chapter "Noise", boyscout edition 10.1.8)
LaTeX source file: noise.tex.


Rest of the schedule is preliminary

Lecture 14 *Tue Feb 24 2004*

Lecture 15 *Thu Feb 26 2004*

Lecture 16 *Tue Mar 2 2004*

Lecture 17 *Thu Mar 4 2004*

Monday Mar 8: **spring break week, to Mar 12**

Lecture 18 *Tue Mar 16 2004*

Lecture 19 *Thu Mar 18 2004*

Lecture 20 *Tue Mar 23 2004*

Lecture 21 *Thu Mar 25 2004*

Lecture 22 *Tue Mar 30 2004*

Lecture 23 *Thu Apr 1 2004*

Lecture 24 *Tue Apr 6 2004*

Wednesday Apr 07: **fall registration starts**

Lecture 25 *Thu Apr 8 2004*
chapter "Chaotic multiscattering", boyscout edition 10.1.9
check also overheads of talks and (un)publications on quantum chaos by Andreas Wirzba

Lecture 26 *Tue Apr 13 2004*
Exercise 24.5

Lecture 27 *Thu Apr 15 2004*

Tuesday Apr 20: **fall registration ends**

Lecture 28 *Tue Apr 20 2004*

Lecture 29 *Thu Apr 22 2004*

Friday Apr 23: **classes end**

Monday Apr 26: **finals week, until Apr 30**

Thursday Apr 29: **Term paper**
due no later than 16:00 - Predrag's office

Monday May 03: **semester end**

Thursday May 06: **grades due**

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predrag.cvitanovic at physics.gatech.edu