

## 1FA352: Quantum Mechanics 10 hp

2011 fall semester: Physics Master & Engineering Physics

Course web page: [www.isv.uu.se/thep/courses/QM](http://www.isv.uu.se/thep/courses/QM)

Literature: J.J. Sakurai, J. Napolitano: Modern Quantum Mechanics, 2<sup>nd</sup> ed.,  
Pearson, ISBN 10: 0-321-50336-8; ISBN 13: 978-0-321-50336-7

[For this course one can also use the previous edition:

J.J. Sakurai: Modern Quantum Mechanics

Addison-Wesley Publishing Company

ISBN 0-201-53929-2, revised edition 1994]

chapter 1

chapter 2.1-2.4 (2.5-2.7) [2.1-2.4 (2.5-2.6) in old book]

chapter 3.1-3.3, 3.5-3.6, 3.8, 3.10-3.11 [3.1-3.3, 3.5-3.7, 3.9-3.10]

chapter 4.1-4.2

chapter 5.1-5.5, 5.7 [5.1-5.6]

chapter 6 [7.1-7.7]/ compendium, to be specified

+ extra material specified on web page

Labs: see web page.

Problems [in old book] to be considered for

	classes	individual exercises
Sakurai		
chapter 1:	9, 12, 13, 28, 30, 31, 32, 33	4, 5, 8, 10, 14, 29
chapter 2:	1, 7, 9, 12, 13, 14, 15, 24 [1, 6, 8, 11, 12, 13, 14, 22]	3, 11, 17 [3, 10, 16]
chapter 3:	4, 9, 13, 26, 31, 32 [3, 8, 12, 22, 27, 28]	1, 15, 18, 20, 24 [1, 14, 16, 18, 20]
chapter 5:	1, 4, 8, 9, 11, 20, 21 26, 28	3, 5, 17 22, 23, 24, 25, 29, 30
Compendium: 21;	1, 4, 5, 9, 10	23; 2, 3, 6, 7, 11

	phone 018-	e-mail	room
Teachers: Gunnar Ingelman	471 3884	Gunnar.Ingelman@physics.uu.se	Å12240
Jonas Fransson	471 5864	jonas.fransson@physics.uu.se	Å13134
Secretary: Rabab Elkarib	471 3521	Rabab.Elkarib@fysast.uu.se	Å10265