

Modus advanced quantum mechanics exercises WS 2017/18

Prof. Christof Gatttringer and Prof. Enrico Arrigoni

This course consists of a problem-solving part, a mid-semester written exam (29. Nov.) and a final written exam at the end of the semester (2 Feb.). You can reach a maximum of 40 points with the written exams, and of 20 points for the problem-solving part. The grade for the course will be determined from the total points of the three parts. For a positive grade at least 50% of the check-marks for the problem-solving part (compare III below) and at least 20 points from the two written exams together need to be achieved.

- (I) The exercises that are to be solved will be provided to you (here) at least 6 days prior to the exercise class (sometimes even earlier).
- (II) Before each exercise class you have to check online here (TU groups) (KFU groups: in class) which exercises you have solved and are prepared to present during the exercise class (you can check the exercises online until 8:00 AM of the day of the exercise class). Furthermore, you have the option to hand in the exercises in written form that you have solved, so that they will be corrected and given back to you. You can also hand in the exercises in small groups.
- (III) Each checked (sub-)exercise generally gets you one check-mark. The total number of points you receive for the checking of the exercises is given by $15 \times \frac{\text{check-marks}}{\text{totalnumberofcheck-marks}}$. In addition to this you can also get up to 5 points for the presentation of exercises (compare V below).
- (IV) Based on the checked exercises, students will be selected to present the solution of a exercise (or a part of it) in front of the class. For the presentation you are allowed to use your notes. You will receive between 0 and 5 points based on understanding, clarity, and originality. The number of points from the presentation part will consist of the average of the points from all your presentations.
- (V) If you checked a exercise but your presentation suggests that you didn't do it, or you don't show up at the exercise class, the total number of check-marks for this day will be annulled. In addition, the total number of points you receive for the problem-solving part will be halved at the end of the semester. If it happens a second time all points for the problem-solving part will be annulled. ¹

Star exercises

Occasionally, optional exercises (or subexercises) will be given, which are labeled by a star. These exercises are particularly demanding and can bring you extra check-marks. Nonetheless, you can still only reach a maximum of 15 points for the checking of the exercises. These "star" exercises are *no-risk*, meaning you can decline your points for the presentation if they turn out to be too low.

Important issues:

- (1) Students will have the opportunity, at their choice, to either repeat the mid-semester written exam or the final written exam.
- (2) The checking of the first exercise will amount to an attempt at the exercise course "*Prüfungsantritt*"
- (3) We will occasionally send to you important information, for example examination dates, to your TUG/UNI-Online e-mail address. You are, thus, expected to read these emails on a regular basis, in order not to miss important information!

¹Notice that the check-marks are not reduced, so you still can reach the required 50% of them.