Statistical Physics exercise class WS 2023/24

This exercise class is coupled with the respective lecture held at TU by Prof. Wolfgang von der Linden.

We will send important informations and updates to your student e-mail addresses. You are, thus, expected to read these emails on a regular basis, in order not to miss them! Make sure that they don't finish in spam!

We ask you also to send emails only to the responsible of your group. Thanks!

The lecturers for this exercise class are:

Paolo Gazzaneo	`paolo.gazzaneo@tugraz.at` (Groups 1-2 TU)
Eduardo Ferreira	`eduardo.ferreira@uni-graz.at` (Group KFU)
Johanna Moser	`johanna.moser@student.tugraz.at` (Group 3 TU/Tutorium)
Philipp Werhounig	`werhounig@student.tugraz.at` (Group 3 TU/Tutorium)

Exercise class dates - Visible in TUGRAZonline

Wed 4.10.2023 (Discussion 1st ex.sheet)
Wed 18.10.2023 (Discussion 2nd ex.sheet)
Wed 8.11.2023 (Discussion 3rd ex.sheet)
Wed 22.11.2023 (Discussion 4th ex.sheet)
Wed 6.12.2023 (Discussion 5th ex.sheet)
Wed 20.12.2023 (Discussion 6th ex.sheet)
Wed 17.01.2024 (Discussion 7th ex.sheet)
Wed 31.01.2024 (Questions and clarifications)

The exact times and lecture halls for TU and KFU groups are visible in TUGRAZonline.

Modality of the exercise class

One week before the exercise class (on Wednesday morning) you will find the exercises on TeachCenter. The first exercise sheet will be posted on 27.09.

In the class of the 31.01.2024 the students can ask questions and get clarifications regarding the topics discussed during the course.

The final grade for every student will be assigned from:

- **One presentation** (it will contribute for 25% on the final mark)
- **Final written exam** (it will contribute for 75% on the final mark)

The presentation consists in the explanation and discussion of the solution by the student of one problem or a part of it, among the ones posted online the week before. **From 1 up to 5 points will be assigned to the presentation of the problem.**

For the presentation we accept volunteers. If you arrange between yourselves who presents in which day, we won't lose time during the class. If nobody offers to present, we will call the students on our initiative (please let us avoid that!).

We expect to evaluate 4 students on average every exercise class, therefore prepare yourself to present and to answer to the questions in relatively short time. Our questions during the presentation will be on the problem, on the understanding of the theory necessary to solve that problem and on the logical steps to arrive to the solution. **We ask you to be**

prepared to answer questions during the presentation!

In terms of time, there is one possibility to present for everyone.

If a person who has already presented presents more times, we will keep the points of the best presentation.

The presentation's points will be provided on Wednesday afternoon on TeachCenter.

Generally, ask the questions you have regarding statistical physics and organizational matters at the end of exercise classes. It will be much faster than an e-mail exchange. Thanks a lot!

Exams and grading

During the semester, there will be a **final written exam** and a **Nachklausur**. In the Nachklausur, you have the opportunity to repeat the final written exam. Everyone is allowed to come to the Nachklausur, not only who got 5 as an overall mark.

Note that the results of the Nachklausur will replace the ones of the final exam. Therefore if you come to the Nachklausur, your result in this exam will contribute to the final grade.

The dates and times for the exams are:

- Final exam: 2.02.2024, 10:00-12:00, location: HS i7
- Nachklausur: 27.02.2024, 10:00-12:00, location: HS P2

The exam will consist of 3 problems. From 1 up to 5 points will be assigned to every problem. Two of them will be chosen randomly among the ones given during the semester and the third one will be a new problem, not given before.

During the exam, you are not allowed to bring books, exercise books, formulars and calculators.

The conversion table from points to marks is the following:

Points	*Marks*
$17.5 - 20$	1
$14.5 - 17.5$	2
$12.5 - 14.5$	3
$10.5 - 12.5$	4
$0 - 10.5$	5

Tutorium

Tutorium dates - Visible in TUGRAZonline

Mon 2.10.2023 (Questions about 1st ex.sheet)
Mon 16.10.2023 (Questions about 2nd ex.sheet)
Mon 6.11.2023 (Questions about 3rd ex.sheet)
Mon 20.11.2023 (Questions about 4th ex.sheet)
Mon 4.12.2023 (Questions about 5th ex.sheet)
Mon 18.12.2023 (Questions about 6th ex.sheet)
Mon 15.01.2024 (Questions about 7th ex.sheet)

The exact time and lecture hall for the tutorium is visible in TUGRAZonline.

If you have questions or doubts regarding how to go ahead in the solution of the exercises or clarifications/explanations you would like to have, you can ask them there.

We strongly encourage you to use it! Due to our limited time during the exercise classes, this is a big possibility for you to have more time to discuss and being helped!